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ABSTRACT

A study examined state-administered vocational education program improvement projects funded in fiscal year 1984. Data concerning 586 projects funded for a total of $16,386,904 were analyzed. These data indicated that, during the year studied, more funds were obligated for support services than for program improvement. The percentage of funds allocated for research, exemplary and innovative, and curriculum development projects decreased in comparison to fiscal year 1983 funding levels. Although collectively the States dedicated nearly 45 percent of their program improvement funding to curriculum development, the amount obligated for each project varied considerably. State program improvement projects have focused on every educational level, with the greatest number focusing on improvement of instruction. (The second half of this report consists of a state-by-state compilation of the resumes analyzed during the study. Each resume includes a proposal identification number, information concerning the agency sponsoring the project and the organization conducting it, the project funding period, a project abstract, and descriptors and identifiers taken from the Thesaurus of ERIC Descriptors. A subject index, also based on ERIC descriptors, and appendixes containing eight tables of data and a list of directors of State research coordinating units are also provided. Fourteen references are also included.) (MN)

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SUMMARY OF STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS IN FY 1984

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CONTENTS

LIST OF TABLES v

FOREWORD vii

EXECUTIVE SUMMARY ix

INTRODUCTION xi

Project Categories xi
Organization of the Report xiii

PART I. A SUMMARY OF STATE-ADMINISTERED PROJECTS IN FY 1984 xv

Methodology xvii
Findings xvii
Summary xxv

PART II. RESUMES OF STATE-ADMINISTERED PROJECTS IN FY 1984 xxix

Project Resumes 1
Subject Index 155

APPENDICES

A. FY 1984 State-administered Program Improvement Projects by State and Legislative Section 215

B. FY 1984 State-administered Program Improvement Projects by Legislative Section (Sec. 123, 134, 135, 136) 219

C. Directors of Research Coordinating Units 227

RELATED DOCUMENTS 235

LIST OF TABLES

TABLE

1. FEDERAL ALLOCATIONS FOR STATE-ADMINISTERED PROGRAM IMPROVEMENT ACTIVITIES xix

2. FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY STATE . xx

3. FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY LEGISLATIVE SECTION xxi

4. RECIPIENTS OF PROJECT FUNDING xxii

5. PRIMARY USERS xxiii

6. INSTRUCTIONAL LEVEL xxiv

7. PRODUCTS OR OUTCOMES OF PROJECTS xxvi

8. PRIORITIES ADDRESSED BY PROJECTS xxvii

APPENDIX A

A1. FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY STATE AND LEGISLATIVE SECTION 216

APPENDIX B

B1. FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY STATE 221

B2. FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY LEGISLATIVE SECTION 222

B3. RECIPIENTS OF PROJECT FUNDING 223

B4. PRIMARY USERS 223

B5. INSTRUCTIONAL LEVEL 224

B6. PRODUCTS OR OUTCOMES OF PROJECTS 225

B7. PRIORITIES ADDRESSED BY PROJECTS 226

FOREWORD

Provisions were made in the Education Amendments of 1976 (P.L. 94-482) for state-administered program improvement projects. During the 1984 fiscal year, 518 research, exemplary and innovative, and curriculum development projects were conducted under this legislative provision. Information about these projects is reported with respect to location, funding levels, funding recipients, target population, educational levels, outcomes, and priorities addressed. This summary report, supplemented by specific searches of the vocational education program improvement (RIVE) database, will be helpful to legislators, Federal program administrators, and State agency personnel by providing answers to questions such as the following:

- o How many projects were conducted and how much money was obligated?
- o How do States compare in the numbers and kinds of projects conducted and the amount of funds obligated?
- o Are projects addressing critical problems and issues?
- o What is the relative emphasis on target audiences and problem areas?
- o What kinds of agencies and organizations are conducting the vocational education R&D?

We are pleased to disseminate this summary of State-administered program improvement projects so that it may be used for program planning and policy development. The funds for this effort were provided by the Office of Vocational and Adult Education, U.S. Department of Education.

We wish to thank the staff members of the State research coordinating units for their cooperation in submitting project descriptions. The summary was prepared in the Information Systems Division of the National Center under the direction of Juliet V. Miller. Wesley E. Budke, Director of the National Center Clearinghouse, coordinated the preparation of this summary. Dr. Budke holds a Ph.D. in agricultural education from The Ohio State University and has been involved in vocational education information systems development and educational product dissemination work at the National Center since 1970. Special recognition is given to project staff members Catherine Thompson, Judith Wagner, Laurian Miguel, and Catherine Smith for their help in retrieving and preparing the data. Janet Ray provided word processing assistance, and final editing of the document was provided under the supervision of Janet Kiplinger of the National Center's Editorial Services.

The contribution of all of these individuals to the preparation of this publication is appreciated.

Robert E. Taylor
Executive Director
The National Center for Research
in Vocational Education

EXECUTIVE SUMMARY

This is a summary report of state-administered vocational education program improvement projects funded in FY 1984 under Subpart 3, Sections 131 (research), 132 (exemplary and innovative), and 133 (curriculum development) of the Education Amendments of 1976 (P.L. 94-482). Part 1 of the report provides summary data about the projects conducted in the states and their focus. Information is provided about where the projects were conducted, by whom, for what purpose, and with what results. Five hundred and eighty-six (586) projects funded for $16,386,904 are summarized. Part 2 of the report is a compilation of resumes (abstracts with fiscal and bibliographic information) of each project and a subject index based upon ERIC descriptors.

The following are conclusions about the State-administered program improvement activities drawn from the data reported.

- More funds are being obligated for support services than for program improvement. State program improvement projects funded under Sections 131, 132, and 133 represent $16,386,904 or 16.5 percent of the total amount allocated to the States for program improvement and support services. It is surmised that the remaining 83.5 percent is being obligated for the support services specified in sections 134, 135, and 136, and possibly for the administration of the State research coordinating units when this is not reported as a project. States vary in the proportion of funds that they devoted to program improvement.

- The FY 1984 percentage of funds allocated for research, exemplary and innovative, and curriculum development projects has decreased over FY 1983. Although the total Federal allocation for subpart 3 increased by $8.7 million, the State allocations to sections 131, 132, and 133 decreased by over $2.5 million.

- Collectively, the States are obligating nearly 45 percent of their program improvement funding to curriculum development. Individual States, however, vary considerably in this respect; some choose to fund no projects in certain categories.

- The amount obligated for each project varies considerably. There is a wide range in project size within and among States. The average funding per project is $27,964. The actual range is from $1,342 to $357,331.

- State program improvement projects are being conducted by educational agencies and institutions at every level. Only 10 percent of the State program improvement funds go to projects conducted by noneducational agencies. The largest share of the work is being conducted by 4-year colleges and universities (49.4 percent) and local educational agencies (22.7 percent).

- Teachers and coordinators are the primary users of slightly over half of the products and services yielded by the projects. An additional 19 percent of the projects were directed toward local and State administrators and supervisors.
- State program improvement projects have focused on every educational level. Nearly 55 percent of the State program improvement obligations have been at postsecondary and combined high school and postsecondary levels.
- The greatest number of projects have focused directly on improvement of instruction (i.e., curriculum and instruction projects, 187; training programs and inservice education, 83; evaluation, assessment, and follow-up, 39).

INTRODUCTION

The Vocational Education Act of 1963 (P.L. 88-210) was the landmark legislation for vocational education program improvement because it contained broad provisions for research and training, as well as experimental and demonstration or pilot programs. Funding authorized under the legislation was appropriated by Congress and allocated by the Commissioner of Education for institutional capacity building and for such priorities as program evaluation, resource development, vocational guidance and career choice, organization and administration, and new careers. The subsequent Vocational Education Act of 1968 (P.L. 90-576) authorized support of grants for research, training, exemplary programs, and curriculum development. A part of the research and exemplary programs was to be administered at the State level.

The Education Amendments of 1976 (P.L. 94-482) responded to many of the concerns raised by the Committee for Vocational Education Research and Development (COVERD) about vocational education research and development. These amendments provided for Programs of National Significance to be administered at the Federal level and for Program Improvement and Support Services to be administered at the State level. The act also encouraged consolidation of programs, more responsible management, and specific accountability. The Rules and Regulations for the act required that State research coordinating units submit to the National Center for Research in Vocational Education resumes of program improvement projects under section 131 (research), section 132 (exemplary and innovative) and section 133 (curriculum development) when contracted, and reports and products resulting from each project within 90 days of its completion. The National Center, through its National Center Clearinghouse, maintains a computerized database (RIVE) of State-administered program improvement project descriptions, available through Bibliographic Retrieval Services, Latham, New York. The National Center Clearinghouse also maintains the information in its files for review and analysis.

Project Categories

Projects included in this report were funded during FY 1984 under sections 131, 132, and 133 of the Education Amendments of 1976. Projects were intended to emphasize improvement of planning in using resources available for vocational education and manpower training; extending, improving, and, where necessary, maintaining existing programs; developing new programs; overcoming sex discrimination and sex stereotyping; and providing part-time employment for needy youths. The three legislative sections are described as follows:

Section 131: Research

Funds may be used to support State research coordinating units and for contracts for program improvement involving (1) applied research and development projects; (2) experimental, developmental, and pilot programs designed to test the effectiveness of research findings, including programs to overcome problems of sex bias and sex stereotyping; (3) improved curriculum materials for current programs and new materials for new and emerging job fields; (4) development of new careers and occupations in fields such as mental and physical health, crime prevention and correction, welfare, education, municipal services, child care, and recreation; (5) training and development projects designed to demonstrate improved methods of obtaining the cooperation of both public and private sectors to coordinate and implement programs for employing persons in the fields described here; (6) evaluating programs relating to training and using public service aides; and (7) disseminating contract results locally. Contracts must result in improved teaching techniques or curriculum materials that will be used in a substantial number of classrooms or other learning situations within 5 years after contract termination.

Section 132: Exemplary and Innovative

Funds may be used for contracts for the support of exemplary and innovative programs, including (1) developing high-quality vocational education programs for urban centers with maximum concentrations of economically disadvantaged, unskilled workers, and unemployed individuals; (2) developing training opportunities for persons in sparsely populated rural areas and individuals migrating from farms to urban areas; (3) providing effective vocational education for individuals with limited-English-speaking ability; (4) establishing cooperative arrangements between public education and employment and training agencies designed to correlate vocational education opportunities with current and projected labor market needs; (5) broadening occupational aspirations and opportunities for youth (with special emphasis given to youth who have academic, socioeconomic, or other handicaps), including programs and projects designed to familiarize elementary and secondary students with a broad range of occupations for which special skills are required and the requisites for careers in such occupations; and (6) facilitating participation of employers and labor organizations in postsecondary education.

Other provisions of section 132 give priority to programs designed to reduce sex stereotyping in vocational education and provide for participation of students enrolled in nonprofit private schools. Annual program plans and accountability reports covering the final year of financial support by the State for these programs must indicate what will happen to the programs after Federal support is discontinued and how promising programs will be continued and expanded within the State.

Section 133: Curriculum Development

Funds may be used for contracts in support of curriculum development projects, including developing and disseminating vocational education curriculum materials for new and changing occupational fields and for individuals with special needs. Funds may be used also for contracts to develop guidance, curriculum, and testing materials and for support services designed to overcome sex bias and enable teachers to meet the needs of individuals enrolled in vocational education programs traditionally limited to members of the opposite sex. Contracts must result in improved teaching techniques or curriculum materials that will be used in a substantial number of classrooms or other learning situations within 5 years after contract termination.

Several projects funded under sections 134 (guidance and counseling), 135 (personnel training), and 136 (sex equity) have been submitted voluntarily by the States and are tallied in appendix B of this report.

Organization of the Report

Part 1 of this report is the sixth summary of the database. The first reported on FY 1978 and 1979 projects and is available through the ERIC system as ED 194 768. The second summary reported on FY 1980 projects and is available from ERIC as ED 198 263. The third summary, covering FY 1981 projects, is available from ERIC as ED 215 147. The fourth report is a 5-year summary for FY 1978 - 1982 and is available from ERIC as ED 227 311. The fifth summary, covering FY 1983 projects, is available from ERIC as ED 239 092. These reports provide summary data about projects conducted in the States and their foci. They provide information about where projects were conducted, by whom, for what purpose, and with what results. This report does not deal with qualitative and programmatic dimensions of State-administered program improvement projects, nor with impact. These dimensions need further investigation that can be facilitated by the database. The work by Hull (1983) has made extensive use of this database in examining product distribution, use, and impact in vocational education.

Part 2 of the report is a compilation of resumes and a subject index for program improvement projects conducted through the State research coordinating units from July 1, 1983 to June 30, 1984 (fiscal year 1984). The Federal funds spent during this period were specifically charged to FY 1984, or they may have been carried forward from the previous fiscal year.

PART I

A SUMMARY OF STATE-ADMINISTERED PROJECTS IN FY 1984

Methodology

The database of state-administered program improvement projects is managed by the National Center Clearinghouse staff. They review and analyze project resumes provided by State research coordinating units to identify, clarify, and compile project data. This requires the following operational sequence:

1. Clearinghouse staff review each resume for complete bibliographic and funding information. Missing information is requested from the State.

2. They compile a list of projects received from each State and request verification from the State research coordinating unit director.

3. They edit and index project abstracts according to ERIC format.

4. They code and process key variables for the computer file (i.e., organization type, target population, education level, outcomes priorities).

5. They sort and tabulate data by computer searching the program improvement database maintained by the Bibliographic Retrieval Services (BRS).

6. They create table displays of aggregate data (see findings section of this report).

Findings

The findings reported in this section are based upon data drawn from program improvement project resumes provided by State research coordinating units. A computer search of the Resources in Vocational Education (RIVE) database was conducted through the Bibliographic Retrieval Services (BRS), Latham, New York. The numbers of contracts and the amounts of obligated funds for state-administered program improvement projects were retrieved and summarized by categories:

- Program improvement projects by State
- Program improvement projects by legislative section
- Contract recipients of project funding
- Primary users of State program improvement projects
- Instructional level
- Products or outcomes of projects
- Priorities addressed by projects

Within each category, projects were assigned to only one classification, even though they may have application to more than one area.

The information reported about state-administered program improvement projects in the RIVE database is influenced by the following factors:

- The information was taken from the funded proposals but does not reflect subsequent spendout of funds and scope adjustments throughout the life of the project.

- State departments of vocational education are allowed to carry over funds to the following year, thus allowing some program improvement activity on a continuing, year-round basis.

- The data reported in this summary reflects the program improvement information in the RIVE database as of 1 December 1984.

- The program improvement activities reported represent only those receiving Federal funds under sections 131 (research), 132 (exemplary and innovative), and 133 (curriculum development) of subpart 3 of the Education Amendments of 1976.

- The projects reported have been verified as correct by the research coordinating units.

Federal Allocations to State Program Improvement

State allocation of program improvement funds to sections 131 (research), 132 (exemplary and innovative), and 133 (curriculum development) is made possible by Federal allocation to the States. Table 1 shows these Federal allocations for FY 1978 through 1984. Also shown are the amounts of these funds allocated by the States (collectively) for research, exemplary and innovative, and curriculum development activities.

During these 7 years, the portion of Federal allocation to sections 131-133 showed a maximum of 4.3 percent variation (FY 1983-FY 1984) whereas total Federal allocation showed a maximum differential of nearly $32 million (FY 1981-FY 1983). In FY 1981, States received the highest total allocation for all program improvement, but a reduced percentage of allocation for Sections 131, 132, and 133. FY 1984 carried the lowest total allocation. Overall, the percentage of Federal funds allocated by the States to research, exemplary and innovative, and curriculum development activities has not fluctuated significantly.

State Program Improvement Activity Summary

Table 2 shows the number of vocational education program improvement projects and Federal funds obligated for projects in each of the States and Territories under provisions of sections 131, 132, and 133 of P.L. 94-482 during FY 1984.

1. For FY 1984, States and Territories reported 586 program improvement projects for which $16,386,904 was obligated.

2. The number of program improvement projects ranged from zero in 16 States and Territories to 46 in Pennsylvania and Washington.

TABLE 1

FEDERAL ALLOCATIONS FOR STATE-ADMINISTERED PROGRAM IMPROVEMENT ACTIVITIES (IN DOLLARS)

Fiscal Year	Total Federal Allocation to States for Subpart 3	State Allocation to Sections 131, 132, & 133	Percentage of Total Allocated to Sections 131, 132, & 133
1978	103,324,822	18,905,159	18.3
1979	107,667,991	20,158,728	18.7
1980	113,662,067	23,514,466	20.7
1981	126,162,326	24,629,348	19.5
1982	94,670,070	17,430,444	18.4
1983	90,937,070	18,902,365	20.8
1984	99,590,000	16,386,904	16.5
TOTALS	736,014,346	139,927,414	19.0 (Ave.)

SOURCE: Office of Vocational and Adult Education, U.S. Department of Education, unpublished allotment tables.

3. Obligations for program improvement ranged from zero in 16 States to $2,879,447 in Texas.

4. The average funding for projects was $27,964, with averages ranging from $1,342 in South Carolina to $357,331 in Michigan.

Table 3 shows the distribution of projects and funds obligated across the program improvement sections (i.e., research, exemplary and innovative, and curriculum development).

1. In previous years, the program improvement funding was divided among sections approximately equally; however, in FY 1984 exemplary and innovative projects were reduced to slightly more than 20 percent of the total (See appendix A for breakdown by state).

2. The 221 projects conducted under section 131 (research) were funded at an average of $22,193.

3. The 126 projects conducted under section 132 (exemplary and innovative) were funded at an average of $32,708.

4. The 239 projects conducted under section 133 (curriculum development) were funded at an average of $30,798.

TABLE 2

FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY STATE

State or Territory	Number of Projects	Obligated Funds
Alabama	0*	--
Alaska	0	--
Arizona	7	342,000
Arkansas	7	157,409
California	11	735,841
Colorado	10	140,376
Connecticut	16	254,403
Delaware	0	—
District of Columbia	0	--
Florida	34	1,180,198
Georgia	23	372,430
Guam	0	—
Hawaii	1	2,218
Idaho	0	--
Illinois	34	1,272,290
Indiana	4	634,627
Iowa	0	--
Kansas	13	322,294
Kentucky	29	731,560
Louisiana	16	303,998
Maine	0	--
Maryland	1	23,000
Massachusetts	24	307,893
Michigan	2	714,662
Minnesota	2	310,000
Mississippi	1	3,000
Missouri	31	446,001
Montana	16	91,816
Nebraska	2	28,000
Nevada	0	--
New Hampshire	0	--
New Jersey	30	470,020
New Mexico	5	198,208
New York	6	236,537
North Carolina	15	244,862

*Zero projects are reported for States indicating they did not fund any projects or did not respond to inquiries by the Clearinghouse staff.

TABLE 2--Continued

State or Territory	Number of Projects	Obligated Funds
North Dakota	0	--
Ohio	5	79,066
Oklahoma	13	210,000
Oregon	15	148,848
Pennsylvania	46	858,236
Puerto Rico	0	--
Rhode Island	0	--
South Carolina	19	25,500
South Dakota	0	--
Tennessee	14	1,417,806
Texas	36	2,879,447
Utah	0	--
Vermont	0	--
Virginia	23	835,099
Washington	46	124,636
West Virginia	14	47,595
Wisconsin	4	78,000
Wyoming	11	159,028
TOTALS	586	$16,386,904

TABLE 3

FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY LEGISLATIVE SECTION

Legislative Section under Subpart 3, P.L. 94-482	Number of Projects	Obligated Funds
Section 131, research	221	4,904,765
Section 132, exemplary and innovative	126	4,121,322
Section 133, curriculum development	239	7,360,817
TOTALS	586	$16,386,904

5. The average funding for State projects within each of the sections (appendix A) varied considerably:

--Research projects ranged from $79 to $155,000.
--Exemplary and innovative projects ranged from $17,677 to $101,270.
--Curriculum development projects ranged from $1,437 to $357,331.

Table 4 shows the recipients of project funding in several categories. Percentages shown are for the amounts of funds, not for projects.

- o Nearly 90 percent of the funding was for projects conducted by educational agencies. Four-year colleges and universities conducted 49.4 percent of the projects, followed by local education agencies (22.7 percent). Two-year colleges received 11.2 percent of the funds.
- o Noneducational agencies (i.e., research centers, private businesses, public sector, and individuals) conducted projects that were supported with about 10 percent of the funds.

TABLE 4

RECIPIENTS OF PROJECT FUNDING

Institution or Agency	Number of Projects	Funding of Projects	Percentage of Funding
College or university	237	8,092,359	49.4
Local education agency	161	3,716,474	22.7
Community college, junior college, or technical institute	77	1,840,175	11.2
State education agency	55	1,050,791	6.4
Business, industry, labor	8	695,826	5.2
Research/development/curriculum organization	23	512,515	3.1
Intermediate education agency	14	285,439	1.2
Public sector organization*	3	80,000	.5
Professional association	2	86,500	.3
Individuals	3	23,250	—
Unclassified	3	3,575	--
TOTALS	586	$16,386,904	100.0

*Organizations, agencies, associations, or committees that do not have an educational focus but do receive public funds.

Table 5 displays the number of projects whose products or outcomes were directed at various educational groups and their funding.

- o About 53 percent of the projects indicated that they would yield products or provide services for teachers or coordinators.
- o About 19 percent of the projects were directed toward local and state administrators and supervisors.
- o Only 1.5 percent of the projects were designed specifically to serve teacher educators.

TABLE 5

PRIMARY USERS

Institution or Agency	Number of Projects	Funding of Projects	Percentage of Funding
Teacher/coordinator	303	8,706,015	53.1
Student	72	2,260,701	13.8
Administrator (local)	75	2,084,130	12.7
Administrator/supervisor (State)	36	1,098,283	6.7
Research and development personnel	55	1,040,659	6.4
Business, industry, labor	4	569,283	3.5
Teacher educator	12	245,277	1.5
Guidance personnel	18	195,285	1.2
Parent/community representative	10	148,240	.9
Elected official/advisory member	1	39,031	.2
TOTALS	586	$16,386,904	100.0

Table 6 provides information on the number of projects and funding directed toward various instructional levels or combinations of instructional levels.

- The foci of 44.5 percent of the projects were specifically upon community college, junior college and technical institute, or a combination of postsecondary and high school.
- The foci of 54.9 percent of the projects were upon high school or a combination of high school and postsecondary.
- About one percent of the projects had outcomes or services designed specifically for the elementary and junior high school levels.

TABLE 6

INSTRUCTIONAL LEVEL

Instructional Level	Number of Projects	Amount of Funding	Percentage of Funding
High school (10-12)	224	4,630,345	28.3
High school and post-secondary (10-14)	110	4,364,159	26.6
Community college, junior college and technical institute (13-14)	113	2,928,198	17.9
Secondary (7-12)	27	1,381,553	8.4
Adult	32	1,099,246	6.7
College or university (13-16)*	38	1,015,526	6.2
Unclassified	26	770,326	4.7
Junior high school (7-9)	8	124,200	.8
Elementary and secondary (K-12)	7	72,351	.4
Elementary (K-6)	1	1,000	—
TOTALS	586	$16,386,904	100.0

*Includes inservice education.

Table 7 shows the nature of products or outcomes of the 586 vocational education program improvement projects administered by the States in FY 1984.

- o Curriculum and instructional products resulted from 187 or 26.7 percent of the projects.
- o Training programs and inservice education were the outcomes of 83 or 11.4 percent of the projects.
- o Evaluation, assessment, and follow-up studies were the outcome or product of 39 projects (7.2 percent).
- o Career and vocational counseling activities were the outcome of 18 projects (2.1 percent).
- o Distribution of materials and development or operation of information systems were the primary activities in 27 projects and accounted for 17.4 percent of the funding.

Table 8 shows the problem areas addressed by the state-administered vocational education program improvement projects funded during FY 1984.

- o The largest percentage (45.5 percent) was in the area of curriculum (i.e., management, development).
- o The curriculum, administration, dissemination, and evaluation areas account for 67.5 percent of the projects and 72.1 percent of the funding.

Summary

Several conclusions about the State program improvement activities can be drawn from the data reported in the previous section.

- o More funds are being obligated for support services than for program improvement. State program improvement projects funded under sections 131, 132, and 133 represent $16,386,904 or 16.5 percent of the total amount allocated to the States for program improvement and support services. It is surmised that the remaining 83.5 percent is being obligated for the support services specified in sections 134, 135, and 136, and possibly for the administration of the State research coordinating units when this is not reported as a project. States vary in the proportion of funds that they devoted to program improvement.
- o The FY 1984 percentage of funds allocated for research, exemplary and innovative, and curriculum development projects has decreased from FY 1983. Although the total Federal allocation for subpart 3 increased by $8.7 million, the State allocations to sections 131, 132, and 133 decreased over $2.5 million.

TABLE 7

PRODUCTS OR OUTCOMES OF PROJECTS

Product or Outcome	Number of Projects	Amount of Funding	Percentage of Funding
Materials distribution	17	2,315,634	14.1
Printed instructional materials	104	2,283,270	13.9
Training programs	58	1,311,894	8.0
Computer software	28	1,306,615	8.0
Nonprint instructional materials	30	1,165,556	7.1
Research	60	1,050,542	6.4
Curriculum guide	53	932,376	5.7
Evaluation	22	583,166	3.6
Inservice education	25	556,974	3.4
Information systems	10	533,070	3.3
Needs assessment	13	489,296	3.0
Program implementation	17	462,253	2.6
Handbook or guide	24	440,963	2.7
Model (exemplary)	20	427,685	2.6
Articulation	9	372,101	2.3
Planning	12	371,121	2.3
Career and vocational counseling	18	345,286	2.1
Competency tests	11	336,696	2.0
Employment services	10	238,043	1.5
Community involvement	8	172,272	1.1
Unclassified	5	142,250	.9
Placement services	6	136,495	.8
Consortium	5	107,473	.7
Follow-up	4	90,609	.6
Feasibility study	7	78,381	.5
Field testing	3	69,174	.4
Workshops	4	38,709	.2
Analysis	2	20,000	.1
Literature review	1	9,000	.1
TOTALS	586	$16,386,904	100.0

TABLE 8

PRIORITIES ADDRESSED BY PROJECTS

Areas of Emphasis	Number of Projects	Amount of Funding	Percentage of Funding
Curriculum	259	7,450,107	45.5
Administration of vocational education	47	1,600,312	9.8
Dissemination of information or products	27	1,561,334	9.5
Evaluation	63	1,203,208	7.3
Adult education	7	603,684	3.7
Disadvantaged	23	587,108	3.6
Handicapped	20	511,171	3.1
Industry/education linkage	22	486,637	3.0
Personnel development	26	402,213	2.5
Basic skills	13	366,240	2.2
Teacher education	16	289,794	1.8
Career development	18	284,320	1.7
Accountability	3	235,187	1.4
Community education linkage	8	199,239	1.2
Sex equity	9	197,778	1.2
Bilingual vocational education	7	115,621	.7
Planning and policy formation	3	71,881	.4
Social and economic problems	3	70,739	.4
Unclassified	3	27,500	.3
Student recruitment	4	36,337	.2
Gifted and talented	2	28,000	.2
Displaced homemakers	1	14,996	.2
Job placement	1	8,500	.1
TOTALS	586	$16,386,904	100.0

- Collectively, the States are obligating nearly 45 percent of their program improvement funding to curriculum development. Individual States, however, vary considerably in this respect; some choose to fund no projects in certain categories.

- The amount obligated for each project varies considerably. There is a wide range in project size within and among States. The average funding per project is $27,964. The actual range is from $1,342 to $357,331.

- State program improvement projects are being conducted by educational agencies and institutions at every level. Only 10 percent of the State program improvement funds go to projects conducted by noneducational agencies. The largest share of the work is being conducted by 4-year colleges and universities (49.4 percent) and local educational agencies (22.7 percent).

- Teachers and coordinators are the primary users of slightly over half of the products and services yielded by the projects. An additional 19 percent of the projects were directed toward local and State administrators and supervisors.

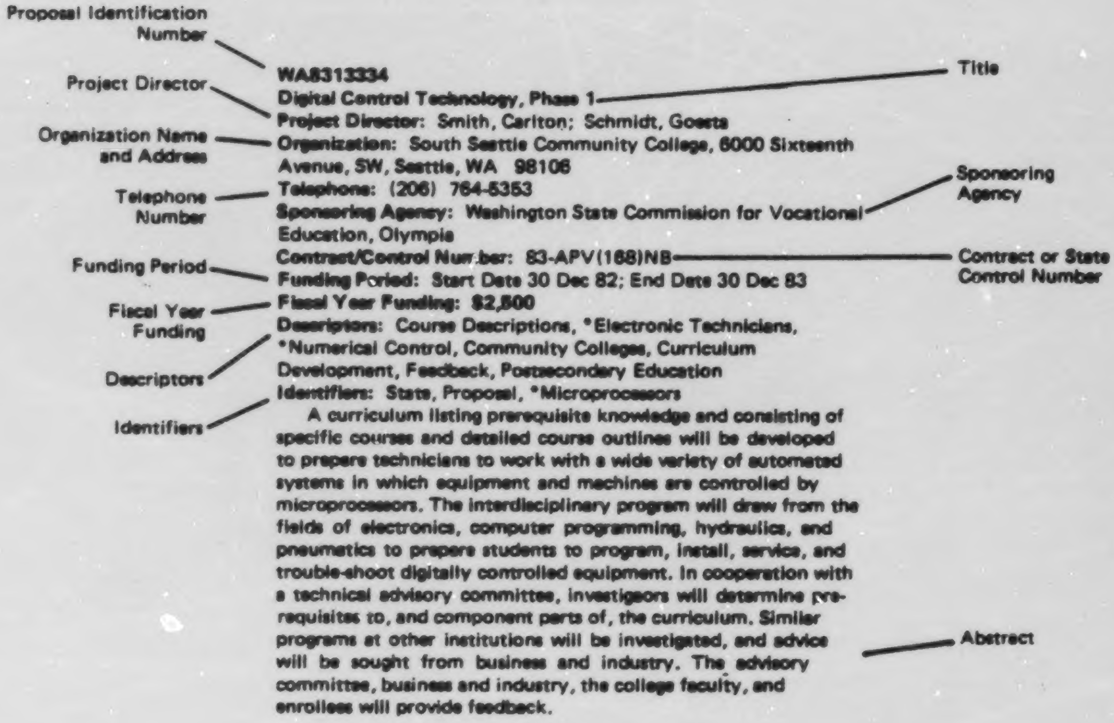
- State program improvement projects have focused on every educational level. Nearly 55 percent of the State program improvement obligations have been at postsecondary and combined high school and postsecondary levels.

- The greatest number of projects have focused directly on improvement of instruction (i.e., curriculum and instruction projects, 187; training programs and inservice education, 83; evaluation, assessment, and follow-up, 39).

PART II

RESUMES OF STATE-ADMINISTERED PROJECTS IN FY 1984

SAMPLE PROJECT RESUME



WA8313334

Digital Control Technology, Phase 1

Project Director: Smith, Carlton; Schmidt, Goesta

Organization: South Seattle Community College, 6000 Sixteenth Avenue, SW, Seattle, WA 98106

Telephone: (206) 764-5353

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia

Contract/Control Number: 83-APV(168)NB

Funding Period: Start Date 30 Dec 82; End Date 30 Dec 83

Fiscal Year Funding: $2,500

Descriptors: Course Descriptions, *Electronic Technicians, *Numerical Control, Community Colleges, Curriculum Development, Feedback, Postsecondary Education

Identifiers: State, Proposal, *Microprocessors

A curriculum listing prerequisite knowledge and consisting of specific courses and detailed course outlines will be developed to prepare technicians to work with a wide variety of automated systems in which equipment and machines are controlled by microprocessors. The interdisciplinary program will draw from the fields of electronics, computer programming, hydraulics, and pneumatics to prepare students to program, install, service, and trouble-shoot digitally controlled equipment. In cooperation with a technical advisory committee, investigaors will determine prerequisites to, and component parts of, the curriculum. Similar programs at other institutions will be investigated, and advice will be sought from business and industry. The advisory committee, business and industry, the college faculty, and enrollees will provide feedback.

Proposal Identification Number
Project Director
Organization Name and Address
Telephone Number
Funding Period
Fiscal Year Funding
Descriptors
Identifiers
Title
Sponsoring Agency
Contract or State Control Number
Abstract

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Arizona

Research (Sec. 131)

AZ8413101.

Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education.

Project Director: Rowe, Kenneth L.; Hutt, Roger

Organization: Arizona State University Tempe, AZ 85281.

Telephone: (602) 965-2645.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.1(1) RESEARCH GOAL 5.

Funding Period: Start Date 11 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $25,000.

Descriptors: Educational-Needs. Job-Training. Research-Needs. Technological-Advancement. Technology.

Identifiers: State. Proposal.

Research will be conducted to identify new or advanced technologies to suggest how vocational education can prepare for the training needs these technologies create. Data will be collected from vocational education, business and industry, labor, and the military services. A master list of new/advanced technologies which have been identified, defined, and classifed will be developed. Training requirements for those technologies then will be identified. A report will be written on the status of Arizona vocational education compared to the training needs for new technologies. An impact plan will be developed indicating what must be done to meet the training needs for new technologies in Arizona.

AZ8413102.

Cost Effectiveness of Computer Assisted Instruction.

Project Director: Kerwood, Robert

Organization: Arizona Center for Vocational Education Box 6025, Flagstaff, AZ 86011.

Telephone: (602) 779-6161.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.1(2) RESEARCH GOAL 6.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $25,000.

Descriptors: Computer-Assisted-Instruction. Cost-Effectiveness. Program-Costs. Public-Schools. School-Surveys.

Identifiers: State. Proposal.

Public secondary and postsecondary institutions will be surveyed to determine the cost effectiveness of computer-assisted instruction. Information will be collected via survey and follow-up interviews of a sample of users. Data will concern users and non-users by occupational program area, types of computer hardware and software being used, cost factors, and effectiveness factors. The final report will provide education/instruction.

Exemplary and Innovative (Sec. 132)

AZ8413201.

Exemplary Project for Training and Placement of Displaced Workers.

Project Director: Kerwood, Robert

Organization: Arizona Center for Vocational Education Box 6025, Flagstaff, AZ 86011.

Telephone: (602) 779-6161.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.1(3) CURRICULUM GOAL 7.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $45,000.

Descriptors: Competency-Based-Education. Computers. Curriculum-Development. Electronics. Games. Job-Placement. Job-Skills. Job-Training. Machine-Repairers. Mechanical-Skills.

Identifiers: State. Proposal. *Displaced Workers.

Displaced workers with mechanical skills will be trained in electronics/computer repair so that they can be placed as electronic game repair specialists (EGRS). A competency-based EGRS curriculum will be developed, and ten displaced workers will be trained and placed. This exemplary program will be transportable to other locations and occupations. A final report will be delivered.

AZ8413202.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers.

Project Director: Kerwood, Robert

Organization: Arizona Center for Vocational Education Box 6025, Flagstaff, AZ 86011.

Telephone: (602) 779-6161.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.2(1).

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $70,000.

Descriptors: Computer-Literacy. Computers. Core-Curriculum. Curriculum-Development. Demonstration-Programs. Learning-Modules. Pilot-Projects.

Identifiers: State. Proposal. *Hands On Experience.

An exemplary core computer course will be developed to provide hands-on experience in the fundamentals of computer use. In year 1, learning packages will be developed, pilot tested, and displayed. Year 2 projections are to test the packages for transferability, then refine and disseminate them statewide.

Curriculum Development (Sec. 133)

AZ8413301.

Produce and Disseminate a Competency-based Curriculum for the Occupation of Geriatric Nursing Assistant.

Project Director: Kerwood, Robert

Organization: Arizona Center for Vocational Education Box 6025, Flagstaff, AZ 86011.

Telephone: (602) 779-6161.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.3(1) CURRICULUM GOAL 9.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 83.

Fiscal Year Funding: $59,000.

Descriptors: Competency-Based-Education. Geriatrics. Nurses-Aides.

Identifiers: State. Proposal.

The self-paced curriculum produced will be based on a competency list that was developed by the Geriatric Aide Curriculum Task Force and industry validated for geriatric patients in long term care facilities and hospitals. First drafts will be reviewed and improved by task force members, revised, and pilot tested and critiqued by teachers in public education and industry settings. Following another revision, the curriculum will be printed and disseminated to teachers in public schools and industry.

AZ8413302.

Development of an Electronics Technician Core Curriculum.

Project Director: Kerwood, Robert

Organization: Arizona Center for Vocational Education Box 6025, Flagstaff, AZ 86011.

Telephone: (602) 779-6161.

Sponsoring Agency: Arizona State Dept. of Education, Phoenix.

Contract/Control No.: PN: 5.3(2) CURRICULUM GOAL 9.
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $59,000.
Descriptors: Competency-Based-Education. Core-Curriculum. Electronics. Individualized-Instruction. Instructional-Materials. Material-Development.
Identifiers: State. Proposal. *Open Entry Open Exit.

The curriculum will be developed and a set of supporting instructional materials developed, modified, or revised to provide for individualized, competency-based, open-entry/open-exit instruction. The Health Occupations Program model format will be adapted to the electronics field, producing an instructional program that facilitates lateral and vertical career mobility in electronics. Resources will include 'Competency-based Common Core Curriculum for Electronics Technician Education,' prepared for the State Board of Directors for Community Colleges of Arizona, and the support and collaboration of individuals and groups currently developing, trying, and using electronics instruction and application in education, business and industry, and government. The curriculum will be printed for statewide dissemination.

AZ8413303.
Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
Organization: Amphitheater Public Schools 125 East Prince Road, Tucson, AZ 85705.
Telephone: (602) 887-5500.
Sponsoring Agency: Arizona State Dept. of Education, Phoenix.
Contract/Control No.: PN: 5.3(3) CURRICULUM GOAL 9.
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $59,000.
Descriptors: Agricultural-Education. Business-Education. Competency-Based-Education. Distributive-Education. Electronics. Home-Economics. Instructional-Materials. Marketing. Trade-and-Industrial-Education.
Identifiers: State. Proposal. Curriculum Coordination Centers.

Competency-based materials will be developed, revised, or adapted in the following areas: agriculture, business, marketing and distributive education, home economics, and trade and industrial education—electronics. Subject matter specialists will work with teachers in developing curriculum. Curriculum coordination centers will be contacted as sources for material. A final report will be delivered.

Arkansas

Research (Sec. 131)

AR8413101.

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).

Project Director: Wear, Charles; Parks, Beverly

Organization: Petit Jean Vocational-Technical School Highway 9 North, Morrilton, AR 72110.

Telephone: (501) 354-2465.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: R8301 (5066).

Funding Period: Start Date 01 Jul 83; End Date 31 Dec 83.

Fiscal Year Funding: $11,875.

Descriptors: Administrator-Guides. Cooperative-Programs. Needs-Assessment. Pilot-Projects. School-Business-Relationship. Teaching-Methods. Training-Methods.

Identifiers: State. Proposal.

Postsecondary instructional programs will be strengthened and linkages expanded between school and the employment community through cooperative vocational education activities. A needs assessment will be conducted in a six-county area. A guide for implementing a postsecondary cooperative vocational education program will be developed and disseminated. The project will be field-tested in at least four training areas. Dissemination and utilization activities will be provided for all postsecondary vocational-technical schools. A model program and a dissemination guide will be delivered.

AR8413102.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103).

Project Director: Park, Ok D.; Clayton, Dean

Organization: University of Arkansas Area of Vocational Education, Graduate Education Building, Fayetteville, AR 72701.

Telephone: (501) 575-4758.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: R8302 (F5067).

Funding Period: Start Date 01 Jul 83; End Date 31 Dec 83.

Fiscal Year Funding: $0.

Descriptors: Business-Education. Business-Education-Teachers. Competency-Based-Education. Criterion-Referenced-Tests. Curriculum-Development. Curriculum-Guides.

Identifiers: State. Proposal.

Competency-based curriculum guides in at least three areas of business education will be identified, adapted, developed, and/or revised. Existing guides for eight programs will be improved by incorporating a competency-based approach including criterion referenced tests. Administrative materials will be updated, eliminated, and augmented as needed. Using selected teacher educators, secondary school business teachers, postsecondary personnel, and business representatives, research will be conducted to produce field-tested curriculum guides, which will be disseminated for use by Arkansas business teachers. Business education teachers will be involved in the field-testing.

AR8413103.

Industrial Cooperative Training Curriculum and Related Activities.

Project Director: Eads, Freeman; Biggs, Bobbie

Organization: University of Arkansas Area of Vocational Education, Graduate Education Building, Fayetteville, AR 72701.

Telephone: (501) 575-4758.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: R 84-02(F6314).

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 85.

Fiscal Year Funding: $22,192.

Descriptors: Competency-Based-Education. Cooperative-Education. Improvement-Programs. Industrial-Education. Instructional-Materials. Material-Development.

Identifiers: State. Proposal.

Instructional materials for competency-based teaching and learning will be adopted and adapted or developed and field-tested, then implemented and disseminated for both general and specific areas. Also, an employer recruiting and training program for all areas will be developed and implemented, a model Industrial Cooperative Training (ICT) program will be established, and the postsecondary ICT program, 'Capstone,' will be developed and implemented for qualified students. An advisory committee appointed will assist in the development and approval for all project activities. The task force appointed will assist in identifying required competencies, evaluating existing curricula, developing curricula, establishing criteria, and formulating related programs and implementation strategies. When curricular strategies and related programs have been developed and approved, they will be field-tested, modified as necessary, and given final approval for implementation, which will occur in conjunction with an inservice training program. It is expected that the number of students in cooperative programs will increase, a closer working relationship will develop with business and industry, industrial personnel will be involved in student training, and current programs will be strengthened.

AR8413104.

Open-entry/Open-exit Automotive Mechanics Program.

Project Director: Wear, Charles

Organization: Petit Jean Vocational-Technical School PO Box 586, Morrilton, AR 72110.

Telephone: (501) 354-2465.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: R 84-01 (F6312).

Funding Period: Start Date 12 Aug 83; End Date 30 Jun 85.

Fiscal Year Funding: $24,300.

Descriptors: Auto-Mechanics. Competency-Based-Education. Models. Power-Technology. Program-Implementation.

Identifiers: State. Proposal. *Open Entry Open Exit.

Development activities conducted will result in an implementation model for the open-entry/open-exit concept in automotive technology programs in Arkansas's area postsecondary vocational-technical schools. A management system and support materials or references to accommodate the concept will be developed, field-tested, implemented, and disseminated. Competency-based video and printed materials needed but not available will be developed, as well as evaluation documents for identification of appropriate entry levels and documents to ensure occupational competence for terminating students. A description of the field test for evaluation and further refinement of methods and materials will be included in the final report to be delivered. Results and recommendations for program implementation will be disseminated to other postsecondary vocational-technical schools, teacher training institutions, and state staff.

AR8413105.

Open-entry/Open-exit Drafting Technology Program.

Project Director: Pendergrass, Royce

Organization: Pines Vocational-Technical 2220 West Eighteenth Street, Pine Bluff, AR 71603.

Telephone: (501) 535-6054.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: R 84-01 (F6313).

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 85.

Fiscal Year Funding: $24,300.

Descriptors: Competency-Based-Education. Drafting. Models. Program-Implementation.

Identifiers: State. Proposal. *Open Entry Open Exit.

Development activities conducted will result in an implementation model for the open-entry/open-exit concept in drafting technology programs in Arkansas's area postsecondary vocational-technical schools. A management system and support materials or references to accommodate the concept will be developed, field-tested, implemented, and disseminated. Competency-based visual and printed materials needed but not available will be developed, as well as evaluation documents for identification of appropriate entry levels and documents to ensure occupational competence for terminating students. A description of the field test for evaluation and further refinement of methods and materials will be included in the final report to be delivered. Results and recommendations for program implementation will be disseminated to other postsecondary vocational-technical schools, teacher training institutions, and state staff.

Exemplary and Innovative (Sec. 132)

AR8413201.

Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205).

Project Director: Clayton, Dean; Park, Ok D.

Organization: University of Arkansas Area of Vocational Education, Graduate Education Building, Fayetteville, AR 72103.

Telephone: (501) 575-4758.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: E8303 (F5081).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $23,592.

Descriptors: Competence. Competency-Based-Education. Course-Descriptions. Curriculum-Guides. Instructional-Materials. Skill-Analysis.

Identifiers: State. Proposal.

The materials will be researched, designed, implemented, and disseminated. Specifically, project staff will (1) determine general and technical competencies necessary for success in general cooperative education programs, (2) differentiate between and among general and technical competencies that can best be incorporated in related classes or on the job, (3) prepare and disseminate materials using the Mid-America Vocational Curriculum Consortium (MAVCC) format, and (4) prepare and disseminate selected training plan outlines for use on the job. Curriculum development activities will involve fifty-six teacher-coordinators mainly in field-testing curriculum guides and training plan outlines; twenty of the teacher-coordinators will be selected to write, revise, and edit the materials. Research-based competency curriculum for general cooperative education in Arkansas will result.

AR8413202.

Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202).

Project Director: Eads, Freeman D.

Organization: University of Arkansas Area of Vocational Education, Graduate Education Building, Fayetteville, AR 72701.

Telephone: (501) 575-4758.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: E8305 (F5082).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $38,570.

Descriptors: Communications. Communication-Skills. Competency-Based-Education. Mathematics. Mathematics-Curriculum. Program-Development. Verbal-Communication.

Identifiers: State. Proposal.

The mathematics and communication program development will be field-tested, implemented through an inservice program, and disseminated. Minimum entry-level competencies will be established for enrollees. Core competencies and additional required competencies will be identified. A learner's needs assessment program will be developed, as well as a pre-entry program in mathematics and communications. Data related to these program areas will be compiled via computer. Competency-based curriculum will be developed for each identified course. This project is expected to standardize mathematics and communication courses, strengthen learners' skills, and keep programs current with industry's needs.

AR8413203.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).

Project Director: Feck, Vincent

Organization: University of Central Arkansas PO Box 1765U, Conway, AR 72032.

Telephone: (501) 450-3121.

Sponsoring Agency: Arkansas State Dept. of Education, Little Rock.

Contract/Control No.: CN: E8301.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $34,772.

Descriptors: Academic-Achievement. Certification. Competence. Competency-Based-Education. Educational-Certificates. Performance-Tests.

Identifiers: State. Proposal.

A competency certificate system will be developed, field-tested, and implemented in Arkansas vocational and technical programs to communicate to prospective employers and others the proficiency (achievement) for vocational students in a verified list of competencies. A composite list will be developed and verified. Performance tests will be identified which may be used in measuring and recording student progress in each of the major competency areas. An advisory committee will approve certificate system format and mission statements for each program level.

California

Research (Sec. 131)

CA8413101.

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.

Project Director: Cooke, Gwen

Organization: San Diego State University Foundation 5178 College Avenue, San Diego, CA 92182.

Telephone: (619) 265-5380.

Sponsoring Agency: California State Dept. of Education, Sacramento.

Contract/Control No.: CN: 1003.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $79,000.

Descriptors: Computer-Oriented-Programs. Education-Service-Centers. Information-Centers. Instructional-Materials. Resource-Units.

Identifiers: State. Proposal. *Dissemination Methods.

Computerized dissemination services for vocational education personnel in California will be provided through VOICE. Vocational education curriculum materials, instructional materials, resource individuals, resource programs, and audiovisual materials will be purchased, accessioned, and disseminated. Inservice activities also will be provided. The project will be evaluated by a third-party evaluator, and the system will serve as a model for statewide dissemination systems.

CA8413102.

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.

Project Director: Brooks, Walt

Organization: Arce-Brooks Consultants Institutional Research 1029 J Street, Suite 500, Sacramento, CA 95814.

Telephone: (916) 325-4701.

Sponsoring Agency: California State Dept. of Education, Sacramento.

Contract/Control No.: CN: 3-3-151; PN: 3-3-151.

Funding Period: Start Date 01 Sep 83; End Date 30 Sep 84.

Fiscal Year Funding: $62,294.

Descriptors: Accountability. Accounting. Community-Colleges. Data-Collection. Followup-Studies. Guidelines. Guides. Information-Dissemination. Research-Methodology. Workshops.

Identifiers: State. Proposal. *Student Accountability Model (California). *Vocational Education Data System.

Data collected to meet Vocational Education Data System (VEDS) requirements will be improved. Also, the findings and methodology being tested in the 'Using Student Performance and Follow-up in Planning' project will be disseminated to all California community colleges. The SAM (Student Accountability Model) Operations Manual will be revised, and new guidelines for data definition and transmittal will be provided. Finally, workshops will be conducted to inform college personnel on new student accounting and follow-up procedures.

CA8413103.

California Vocational Education Program for Compliance with the Office for Civil Rights Guidelines for Eliminating Discrimination and Denial of Services Based on Race, Color, National Origin, Sex, or Handicap.

Organization: Foothill DeAnza Community College District 12345 El Monte Road, Los Altos Hills, CA 94022.

Telephone: (415) 574-3902.

Sponsoring Agency: California State Dept. of Education, Sacramento.

Contract/Control No.: CN: 43-69443-3-4-900.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $150,000.

Descriptors: Civil-Rights. Compliance-Legal. Guidelines. Program-Development.

Identifiers: State. Proposal.

A prototype compliance program will be developed for the Office of Civil Rights Guidelines for vocational education. Data will be collected and analyzed. A compliance review will be conducted and compliance activities reported to the Office of Civil Rights. Technical assistance will be provided. A third party evaluation of the project will be conducted. A final report will be delivered which provides specific recommendations for conducting compliance reviews that comply with the Office of Civil Rights Guidelines for Vocational Education.

CA8413104.

Third Party Evaluation of Program Improvement Projects.

Project Director: Auvil, Mary

Organization: Cabrillo Community Colleges 6500 Soquel Drive, Aptos, CA 95003.

Telephone: (408) 475-4993.

Sponsoring Agency: California State Dept. of Education, Sacramento.

Contract/Control No.: CN: 1266.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 85.

Fiscal Year Funding: $107,957.

Descriptors: Program-Evaluation. Program-Improvement.

Identifiers: State. Proposal. *Final Reports.

A third party evaluation of program improvement projects will be conducted. Data for the evaluation will be collected by studying project documents, visiting a sample of the projects, hearing oral reports from project representatives, interviewing representatives by phone, and discussing the projects with state monitors. Data will be analyzed and used to produce outcome reports for the individual projects, evaluation reports for each project, and a summary evaluation report.

CA8413105.

Feasibility of Utilizing Placement Rate Concept in Vocational Education.

Organization: Carvell Education Management Planning, Inc. PO Box 531, Los Altos, CA 94022.

Telephone: (415) 941-9118.

Sponsoring Agency: California State Dept. of Education, Sacramento.

Contract/Control No.: CN: 3-3-157-10.

Funding Period: Start Date 07 May 84; End Date 30 Sep 84.

Fiscal Year Funding: $64,195.

Descriptors: Comparative-Analysis. Educational-Research. Evaluation-Criteria. Feasibility-Studies. Job-Placement. Program-Evaluation. Validity.

Identifiers: State. Proposal.

The potential of the placement rate concept as a valid means for judging or comparing vocational education programs in secondary schools, adult education, ROP/Cs, community colleges, and other employment training programs will be investigated. The feasibility, limitations, and estimated costs of implementing a placement rate model also will be determined. Direction and major input will be provided by a project advisory committee. A study team of senior professionals from Carvell and vocational educators from secondary and community college programs will establish a conceptual framework and accompanying definitions for a placement rate concept. Also, they will apply measurable criteria to available placement rate data and assess the validity and comparability of the data. Finally, the source, content, and quality of data needed for the placement rate model will be identified. In addition to reviewing existing studies and analyzing and comparing current data from the state, activities will include incorporation of current COICC research projects related to Vocational Education Data System (VEDS) data, contacts with program area consultants from secondary and community college programs and other state agencies, field visits to program sites, and use of at least four advisory committee meetings that employ interactive methods to assess information and develop concepts. The final report delivered will include recommendations for implementing the placement rate model and alternatives for placement. The project will contribute to a body of common definitions and criteria useful for assessment of program effectiveness, setting of priorities, and funding considerations.

CA8413106.
Evaluation Review.
Project Director: Wright, Calvin E.
Organization: Educational Evaluation and Research, Inc. 250 South Castanya Way, Menlo Park, CA 94025.
Telephone: (415) 325-3254.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 3-4-154-09.
Funding Period: Start Date 27 Apr 84; End Date 30 Jun 85.
Fiscal Year Funding: $44,744.
Descriptors: Community-Colleges. Coordination. Educational-Cooperation. Program-Evaluation. Services. State-Programs. Systems-Development.
Identifiers: State. Proposal.

Coordination and support services necessary to accomplish the revision of the statewide system for evaluation of vocational education in California community colleges will be provided. College personnel, research and evaluation specialists, and representatives from business, industry, and government will be involved in the redesign and field-testing of the statewide evaluation system. The consultant will (1) provide support for the statewide advisory committee which will help develop instruments and procedures for the system, (2) assess the reliability and validity of the instruments used, (3) plan and conduct a formative assessment of the system, (4) assist with orientation and training workshops for evaluation team members, and (5) assist in developing statewide reports on the evaluation of community college programs and services. The final report delivered will include information on the performance of the revised system and any recommendations for further improvement of the system.

Curriculum Development (Sec. 133)

CA8413301.
Computers in the Small-Scale Construction Trades Industry Applications and Education.
Project Director: Charns, Harold
Organization: E. H. White and Company 245 Clement Street, San Francisco, CA 94118.
Telephone: (415) 668-0076.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 3-3-151; PN: 3-3-151.
Funding Period: Start Date 01 Sep 83; End Date 30 Sep 84.
Fiscal Year Funding: $44,945.
Descriptors: Community-Colleges. Computer-Assisted-Instruction. Construction-Industry. Construction-Management. Microcomputers. Teaching-Methods.
Identifiers: State. Proposal.

A methodology will be designed to acquaint the small-scale construction industry with computer applications and computer-assisted instruction (CAI) through the California Community College system. Current generations of microcomputers will be adapted to specific applications in the construction management and trades occupation and tested. Instructors and students will be trained to use the computers at a demonstration center. The private sector will be involved in the problem analysis and project tasks as appropriate. The use of microcomputers in this field will be defined. Prototype applications and CAI software will be developed and tested.

CA8413302.
Microcomputer Program Catalogs for Agriculture/Natural Resources.
Project Director: McIntyre, George
Organization: Northeastern California Higher Education Council California State University—Chico, Chico, CA 95929.
Telephone: (916) 895-5901.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 3-3-352; PN: 3-3-352.
Funding Period: Start Date 12 Jul 83; End Date 30 Sep 84.
Fiscal Year Funding: $25,000.
Descriptors: Agricultural-Education. Catalogs. Computer-Programs. Guides. Information-Sources. Microcomputers. Natural-Resources.
Identifiers: State. Proposal.

Community college instructors in agriculture and natural resources will be provided with the exposure, training, software knowledge, and technical assistance needed to stay abreast of the industry's use of microcomputers and to improve instruction. The 'Microcomputer Resource Guide for Agriculture' will be converted to machine-readable form and housed in a microcomputer at the Northeastern California Higher Education Council. The updating process will become continuous, and current information will be available to instructors at any time. The third edition of the guide will be available in printed copy or flexible disc.

CA8413303.
Promoting Student Achievement.
Project Director: Martin, Joan
Organization: San Diego State University School of Family Studies/ Consumer Sciences, 5402 College Avenue, San Diego, CA 92132.
Telephone: (619) 265-5380.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 1164.
Funding Period: Start Date 16 Sep 83; End Date 30 Sep 84.
Fiscal Year Funding: $125,000.
Descriptors: Academic-Achievement. Disadvantaged-Youth. Home-Economics-Teachers. Inservice-Teacher-Education. Professional-Development. Teaching-Methods.
Identifiers: State. Proposal.

Vocational home economics teachers will attend inservice sessions to learn to promote student achievement in disadvantaged students. Home economics content, materials, and resources will be included. Materials will be developed or acquired for limited English-proficient students. Twenty teachers will be selected for additional professional development to develop trainer skills. A plan will be implemented to incorporate strategies for working with disadvantaged students in at least two colleges and university preservice home economics education programs. A booklet, 'Promoting Student Achievement: Teaching Behaviors That Work,' will be produced.

CA8413305.
Curriculum Development in Vocational Agriculture.
Project Director: Thompson, O. B.
Organization: University of California—Davis Department of Applied Behavioral Sciences, Davis, CA 95616.
Telephone: (916) 752-2855.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 1267.
Funding Period: Start Date 01 Jan 84; End Date 30 Dec 84.
Fiscal Year Funding: $30,000.
Descriptors: Agricultural-Education. Curriculum-Guides. Learning-Modules. Material-Development. Teacher-Workshops.
Identifiers: State. Proposal.

A procedure will be developed to assess which curriculum guidelines need revision to make them technically current and appropriate for handicapped, disadvantaged, or limited English-speaking students, based on results of the 'Model Vocational Agricultural Education Program' activities. Also, determination will be made of which additional learning activity packages are needed to meet the needs of those students. The guidelines then will be revised and the learning activity packages developed. Next, local, regional, and statewide workshops will be conducted with teachers of vocational agriculture on appropriate use of the materials. Provision will be made for dissemination of all materials to vocational agriculture teachers. Formative evaluation will include advisory committee review and evaluation of each activity, pilot testing of instructional materials with appropriate review, and participant evaluation of inservice workshops.

CA8413306.

Statewide Respiratory Therapy Program Curriculum Development.

Project Director: Waters, Verle; McNamee, Carol
Organization: Ohlone College PO Box 3909, Fremont, CA 94539.
Telephone: (415) 659-6030.
Sponsoring Agency: California State Dept. of Education, Sacramento.
Contract/Control No.: CN: 3-4-352-13.
Funding Period: Start Date 17 May 84; End Date 30 Jun 85.
Fiscal Year Funding: $25,000.
Descriptors: Inhalation-Therapy. Instructional-Improvement. Models.
Identifiers: State. Proposal.

Leadership and structure will be provided for twenty-two respiratory therapy program representatives and interested therapy practitioners to develop consensus on an academically sound, economically feasible, work-world relevant, student sensitive curriculum model. First, staff will establish a data base consisting of current and anticipated state and national standards and findings from an analysis of program materials submitted by all twenty-two program directors. Next, statewide conferences will provide a forum for clarification of curriculum issues and development of a consensus on essential elements of a model. A task force then will synthesize statewide conference conclusions, draft a proposal for one or more curriculum models, and submit them to programs with a request for review and feedback. Incorporating feedback received, the task force will submit a completed curriculum model with implementation guidelines. Instruction will be facilitated, and employability upon graduation will be enhanced.

Colorado

Research (Sec. 131)

CO8413101.

A Demonstration Model for Meeting the Needs of Displaced Workers.

Project Director: Anderson, Harold

Organization: Colorado State University Department of Vocational Education, Fort Collins, CO 80523.

Telephone: (303) 491-7518.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 62934.

Funding Period: Start Date 01 Oct 83; End Date 30 Aug 84.

Fiscal Year Funding: $23,739.

Descriptors: Demonstration-Programs. Dislocated-Workers. Models. Problems. Relocation. Retraining. School-Business-Relationship.

Identifiers: State. Proposal.

Business, industry, labor, government agencies, and vocational education will be enlisted in meeting the needs of displaced workers. The roles and services provided by these groups will be identified, as well as barriers to the retraining and relocation of these workers. A model for retraining these workers will be developed and preliminarily tested. The program will be designed to be transportable to other areas of the state. The model, with implementation recommendations, will be published in booklet form and delivered to vocational educators and other interested parties.

CO8413102.

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.

Project Director: Anderson, Harold B.

Organization: Colorado State University Department of Vocational Education, Fort Collins, CO 80523.

Telephone: (303) 491-7518.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 62935.

Funding Period: Start Date 01 Oct 83; End Date 29 Feb 84.

Fiscal Year Funding: $11,648.

Descriptors: Financial-Needs. Financial-Support. Program-Budgeting. Program-Costs. Program-Implementation.

Identifiers: State. Proposal.

Alternative methods of funding postsecondary vocational education will be identified in an effort to fund programs which currently lack funds. Postsecondary institutions will be asked for input, and literature reviews and surveys of other states also will be utilized. A booklet will be developed containing information concerning the need for postsecondary funding, including a section on alternative funding.

CO8413103.

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.

Project Director: Lind, John; Guyer, Ron

Organization: Arapahoe/Douglas Area Vocational School 5833 South Prince Street, Littleton, CO 80201.

Telephone: (303) 795-8206.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 63026.

Funding Period: Start Date 01 Aug 83; End Date 31 Dec 84.

Fiscal Year Funding: $16,220.

Descriptors: Advanced-Placement. Articulation-Education. Auto-Mechanics. Behavioral-Objectives. Child-Care-Occupations. Competence. Food-Service. Task-Analysis. Welding.

Identifiers: State. Proposal.

Common task lists, student performance objectives, and competency records will be adopted for secondary and postsecondary food service, child care, welding, and auto mechanics at Arapahoe/Douglas Area Vocational School. The competency record will be developed in both hard copy and computerized format to facilitate advanced standing for secondary students. Existing programs with similar activities will be surveyed. Tasks will be cross-matrixed to compile the lists, objectives, and records. These activities will occur at curriculum articulation workshops, and the materials will be field-tested by instructors. Copies of all materials will be delivered.

CO8413104.

Statewide Assessment and Projection of Needed High Technology Training Programs.

Project Director: Wolff, Warren W.

Organization: Western Occupational Research Corporation 770 Grant Street, Suite 238, Denver, CO 80203.

Telephone: (303) 830-6666.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Funding Period: Start Date 01 Aug 83; End Date 29 Feb 84.

Fiscal Year Funding: $29,991.

Descriptors: Educational-Planning. Educational-Policy. Labor-Needs. Labor-Supply. Research-Reports. School-Role. Statewide-Planning. Technological-Advancement.

Identifiers: State. Proposal.

A research report will be produced containing a definition of high technology industries, labor demand and supply, recommended training programs, and recommendations concerning the role of vocational education in the state's high technology program, as overseen by the Colorado Advanced Technology Institute (CATI). Surveys will be used to arrive to consensus on the definition of high technology industries and occupations; mail survey with on-site interviews and databases analysis will be used for determining labor market needs. Present course availability and projected needs to provide the necessay supply of workers will be determined. Finally, representatives of selected large and small high technology businesses, vocational educators, CATI commissioners, and other key state officials will participate in a workshop to make policy recommendations and to determine the role and magnitude of vocational education in training for high technology jobs.

CO8413105.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions.

Project Director: Anderson, Harold

Organization: Colorado State University Department of Vocational Education, Fort Collins, CO 80523.

Telephone: (303) 491-7518.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 62936.

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $12,883.

Descriptors: Administrators. Educational-Needs. Evaluation. Industrial-Personnel. Industry. Perception. School-Role. Surveys. Technological-Advancement.

Identifiers: State. Proposal.

The industry executives and administrators of public two-year postsecondary institutions will be mailed a survey instrument to determine if the educational needs of high technology industries are being met and to identify the role of an advanced technology institute. A random sample of fifteen community college administrators in each of twelve other states with potential to attract high technology industries will be included in the survey. Findings will be included in the final report.

CO8413106.

Long Range Follow-up of Students Enrolled in Cherry Creek

District Vocational Education Programs.

Project Director: Edwards, Glenn

Organization: Cherry Creek Schools Office of Vocational and Career Education, 9150 East Union Avenue, Englewood, CO 80111.

Telephone: (303) 773-1184.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 62756.

Funding Period: Start Date 01 Aug 83; End Date 31 Oct 84.

Fiscal Year Funding: $1,000.

Descriptors: Followup-Studies. Longitudinal-Studies. Program-Effectiveness. Program-Evaluation. Student-Attitudes.

Identifiers: State. Proposal.

The five-year follow-up study will be undertaken to determine (1) the number of students who have pursued additional training, (2) the number who have completed a baccalaureate program, (3) the number who are employed in areas related to their high school programs, (4) students' opinions about program effectiveness and quality, and (5) students' perceptions of their cooperative work experiences. All enrollees (completers or noncompleters) will be studied. Questionnaires and form letters will be mailed, and nonrespondents will be telephoned. Answers will be tallied by individual program, and a total response figure will be determined.

CO8413107.

Colorado Marketing and Distributive Education Improvement Plan.

Project Director: Welch, Robert

Organization: University of Northern Colorado McKee Hall, Greeley, CO 80639.

Telephone: (303) 351-2939.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 63025.

Funding Period: Start Date 01 Jul 83; End Date 15 Aug 84.

Fiscal Year Funding: $8,895.

Descriptors: Coordinators. Distributive-Education. Marketing. Needs-Assessment.

Identifiers: State. Proposal. Distributive Education Clubs of America.

A needs assessment instrument will be completed by secondary marketing and distributive education teacher-coordinators and local administrators to determine program improvement needs in the following categories: (1) communication and public information, (2) program management, (3) curriculum and instruction, (4) corrdination techniques, and (5) DECA (Distributive Education Clubs of America). Results will be used to identify specific needs by region, size of program, program design, and other criteria. As a result, a variety of learning experiences will be developed and implemented.

Exemplary and Innovative (Sec. 132)

CO8413201.

Medical Records Technicial Program.

Project Director: Dion, Ester

Organization: Arapahoe Community College 5900 South Santa Fe Drive, Littleton, CO 80120.

Telephone: (303) 794-1550.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 62809.

Funding Period: Start Date 15 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $10,000.

Descriptors: Allied-Health-Occupations-Education. Associate-Degrees. Entry-Workers. Improvement. Medical-Record-Technicians. Pilot-Projects. Retraining.

Identifiers: State. Proposal.

In response to legislative mandates for trained medical records technicians, an associate degree pilot programs will be developed to meet health care industry and insurance industry needs for trained personnel. Evening classes will be offered for student accessibility. On-the-job training sites in hospitals, nursing homes, and similar agencies, as well as jobs for placement, will be provided by members of the health occupations education department and advisory committee members from the medical community. Selected courses from the program will provide retraining or upgrading and improved skills for current employees. Efforts will be made to articulate the medical transcription program offered by a vocational-technical center with the degree program and to articulate the two-year program to a four-year program, resulting in improved career mobility. A final report will be delivered.

CO8413202.

Identification and Evaluation of Assessment Tools Used to Counsel Students.

Project Director: Feller, Richard

Organization: Colorado State University Department of Vocational Education, Fort Collins, CO 80523.

Telephone: (303) 491-6879.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 63029.

Funding Period: Start Date 01 Oct 83; End Date 30 Aug 84.

Fiscal Year Funding: $14,311.

Descriptors: Career-Guidance. Evaluation-Methods. Guidance-Personnel. Models. Program-Effectiveness. School-Counselors. Student-Recruitment. Videotape-Recordings.

Identifiers: State. Proposal.

A written and video report will be developed to aid in the creation of model career guidance programs. Authors of the ten most frequently cited assessment instruments will be surveyed regarding these instruments' usefulness. Colorado guidance personnel's view of the ideal assessment tool will be determined via questionnaire. The findings will allow decision makers to evaluate the effectiveness of assessment tools in helping to recruit students into vocational education.

CO8413203.

Developing a Center for Small Business—A Model for Economic Development.

Project Director: Moorman, Jerry W.

Organization: Pueblo Community College 900 West Orman Avenue, Pueblo, CO 81004.

Telephone: (303) 549-3237.

Sponsoring Agency: Colorado State Dept. of Education, Denver.

Contract/Control No.: CN: 63027.

Funding Period: Start Date 17 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $11,689.

Descriptors: Community-Benefits. Community-Colleges. Economic-Development. Entrepreneurship. Small-Business. Vocational-Training-Centers.

Identifiers: State. Proposal.

The Center for Small Business will develop and implement services, activities, and products useful for the furtherance of small business. This concept will serve as a model for use by other communities and will make a positive impact on the economy of Pueblo. A final report describing all the steps taken in establishing the center will be delivered.

Connecticut

Research (Sec. 131)

CT8413101.
Project Link.
Project Director: Connair, Pierce
Organization: Southeastern County Chamber of Commerce One Whale Oil Row, New London, CT 06320.
Telephone: (203) 443-8332.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: P.S. 84-0033.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $10,000.
Descriptors: Data-Analysis. Data-Collection. Information-Dissemination. Job-Training. Labor-Needs. Research-Reports. School-Business-Relationship.
Identifiers: State. Proposal.

Project staff will contact the state labor department, state education division of employment and training, education-work councils, business organizations, vocational education divisions, education centers, and other agencies to gather data concerning demographics, occupational and education status, availability of vocational and technical training, and trends and impacts for the labor market area. The data will be analyzed. Gaps will be identified, conclusions drawn and recommendations made, and findings published and disseminated. Findings will be reported at two conferences. Communications will be established with a local business/education collaborative to advise, verify, and evaluate findings. A working report will be compiled with appropriate tables and lists of resources to guide professionals in developing programs to meet labor market needs.

CT8413102.
Women's Employment Resource Center (WERC) Support Services Handbook.
Project Director: Braverman, Fran
Organization: Women's Employment Resource Center 48 Howe Street, YWCA, New Haven, CT 06511.
Telephone: (203) 624-2331.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: PS 84-0297.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $4,000.
Descriptors: Ancillary-School-Services. Educational-Administration. Females. Guides. Nontraditional-Occupations.
Identifiers: State. Proposal.

Developed for planners and administrators of secondary, adult, preapprenticeship, and apprenticeship programs, the handbook will describe existing support programs for women in nontraditional training and employment and will detail priorities for service as they apply specifically to women. An annotated bibliography of published material and other resources will be included. Data collection for preparation of the handbook will include a survey of thirty employers, twenty program planners, and twenty administrators; in-depth interviews with five employers, five planners, five administrators, and twenty-five women working in nontraditional fields; and a review of existing support services in Connecticut. An advisory board will provide input for compilation and writing. One camera-ready copy of the handbook and 153 notebooks will be delivered.

CT8413103.
Assessment of Vocational Training Needs in the Middletown Labor Market Area.
Project Director: Thompson, Donald L.
Organization: Regional School District #13 135 Hunting Lodge Road, Storrs, CT 06268.
Telephone: (203) 429-6277.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: PS 83 1397.
Funding Period: Start Date 01 Jul 83; End Date 31 Mar 84.
Fiscal Year Funding: $9,998.
Descriptors: Employment-Projections. Labor-Market. Labor-Needs. Labor-Supply.
Identifiers: State. Proposal.

Occupational supply and demand will be collected and analyzed to develop recommendations for vocational program planning in the Middletown (CT) area. A format will be developed to allow for data update. Existing area vocational programs at grades 9-14 will be reviewed. Occupational supply projection data for the area will be collected. Supply and demand data will be analyzed and compared and recommendations made. This project will result in a skilled work force in which workers will be prepared to enter the career of their choice.

CT8413104.
An Evaluation of Business Teacher Education in Connecticut.
Project Director: Olansen, Jacqueline
Organization: RMC Research Corporation 400 Lafayette Road, Hampton, NH 03842.
Telephone: (603) 926-8888.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: 84-0971.
Funding Period: Start Date 01 Nov 83; End Date 31 Oct 84.
Fiscal Year Funding: $7,189.
Descriptors: Business-Education. Business-Education-Teachers. Inservice-Teacher-Education. Job-Skills. Office-Occupations-Education. Preservice-Teacher-Education. Teacher-Attitudes. Teacher-Education.
Identifiers: State. Proposal.

Business teacher education (BTE) programs in Connecticut will be evaluated to determine pre- and inservice training needs as perceived by the teachers themselves. A teacher questionnaire will be administered to all business and office teachers in Connecticut high schools. Responses will help identify current and projected business and office skill requirements and the relevance of existing BTE programs. Connecticut BTE programs will be compared to those of other states. Appropriate changes in BTE programs will be suggested.

CT8413105.
Connecticut Assessment of Educational Progress: Business and Office Education.
Organization: Kappa Systems, Inc. 400 Lafayette Road, Hampton, NH 03842.
Telephone: (603) 926-8888.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: 84-0469.
Funding Period: Start Date 15 Aug 83; End Date 15 May 84.
Fiscal Year Funding: $57,264.
Descriptors: Business-Education. Evaluation-Methods. Grade-12. State-Programs.
Identifiers: State. Proposal.

A testing instrument will be developed to assess the proficiency of twelfth grade students in programs statewide. Planning procedures will involve developing a question and answer brochure; developing goals and objectives to be measured; and selecting, developing, and reviewing items for a pilot test. Student, principal, and teacher questionnaires will be developed, as well as a draft of a test coordinator's manual. Testing procedures will include preparation of final testing materials and coordination with schools prior to pilot testing. A toll-free telephone line will be maintained for use by Connecticut school districts. Using project-prepared answer sheets, the investigating agency will score and analyze statewide, school, and district results. Workshops then will be conducted. Finally, a standard-setting study will be conducted.

Exemplary and Innovative (Sec. 132)

CT8413201.
Inter-District Enrollment Project.
Project Director: Eigen, Richard
Organization: Valley Regional Planning Agency RR Station, Main Street, Derby, CT 06418.
Telephone: (203) 735-8688.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: 84-0344.
Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.
Fiscal Year Funding: $20,000.
Descriptors: Institutional-Cooperation. Regional-Programs. School-Districts. Student-Placement.
Identifiers: State. Proposal.

The use of existing vocational education programs in the high schools of the Valley Planning Region will be increased, and vocational training choices available to students will be expanded. A central source will be provided for gathering and disseminating information on course offerings, the needs and desires of students will be matched to training programs available, and transportation of students will be coordinated. A part-time coordinator will serve as liaison among participating school systems, working closely with school officials and the Chamber of Commerce in placing students into training programs that are relevant to the recently identified needs of the regional labor market.

CT8413202.
Middlesex Consortium: Vocational Education.
Project Director: Grzymkowski, Virginia J.
Organization: Regional School District #13 Maiden Lane, Durham, CT 06422.
Telephone: (203) 349-3944.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: PS 84-0345.
Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.
Fiscal Year Funding: $22,000.
Descriptors: Consortia. Information-Dissemination. Program-Development.
Identifiers: State. Proposal.

Program opportunities for students in grades 9-12 will be expanded in a cost effective manner through the sharing of students, teachers, and resources among participating systems. A full-scale vocational program will be implemented among participating school systems in 1983-84. Data from the labor market study will be used in reviewing and modifying program opportunities. Representatives from business, industry, and communities will be used to assist in the redesign of vocational programs and to assist in the development of an internship program. Records and data will be maintained for use in assessing the overall effectiveness of the consortium concept and its generalizability to other educational systems. Finally, a dissemination conference will be held for Connecticut superintendents and boards of education.

CT8413203.
Business Office Skills Development.
Project Director: Piccirillo, Martin L.
Organization: Meriden Public Schools 142 East Main Street, Meriden, CT 06450.
Telephone: (203) 634-0003.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: PS-83-1408.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $30,000.
Descriptors: Cooperative-Programs. Office-Occupations-Education. School-Business-Relationship. Work-Experience-Programs.
Identifiers: State. Proposal.

This joint venture by the Aetna Life and Casualty Employee Benefits Division and the Meriden Public Schools will provide disadvantaged minority students with reinforcement of basic communication and computation skills through the application of these skills in a business office setting. This cooperative work experience will prepare students for nonpermanent employment during vacation periods and for permanent employment following graduation, provide students with experience by which they can affirm or disregard career clerical employment, and provide students with opportunities to work with minority adults who are successful role models. Twenty-five to thirty twelfth grade students from F. T. Maloney High and O. H. Platt High School will participate. The curriculum will be based on Aetna's Benefits Division curriculum and the instructional business office education program in both high schools. Unmet individual student needs will be fulfilled by the tutor/coordinator's individual instructional support. Periodic performance evaluations indicating areas needing improvement and strategies necessary to achieve improvement will be presented to each student by division supervisors. Counseling will be available for students who require assistance that cannot be provided by either division staff or the high school faculty. A productive relationship will be established between Aetna and Meriden Public Schools, facilitating an exchange of resources.

CT8413204.
Intensive Business Program.
Project Director: Abeshouse, Joan
Organization: Cooperative Educational Services 11 Allen Road, PO Box 2087, Norwalk, CT 06852.
Telephone: (203) 847-3873.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: PS 84-0965.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $19,932.
Descriptors: Business-Education. Certification. Cooperative-Programs. Program-Development. Program-Implementation. School-Business-Relationship.
Identifiers: State. Proposal.

The regional vocational planning process will be demonstrated and validated, and the cooperative development and implementation of an interdistrict vocational program in business education will be demonstrated. Students with high potential for success in business careers who are not preparing themselves for those occupations will be recruited and motivated. A curriculum guide will be developed, based on employer-identified competencies, and certification will be offered to program completers. The pilot curriculum, implemented in several school districts, will include both classroom and worksite instructional environments. Inservice activities will be provided for teachers and business personnel, and ongoing evaluation with appropriate revisions and recommendations will take place. A model process for interdistrict, employer/educator collaboration on needs assessment, recruitment, orientation, skill training, job placement, and follow-up will result.

CT8413205.
Working Together: Employers and Educators.
Project Director: George, William T.
Organization: New Britain Chamber of Commerce One Central Park Plaza, New Britain, CT 06051.
Telephone: (203) 229-1665.
Sponsoring Agency: Connecticut State Dept. of Education, Hartford.
Contract/Control No.: CN: IS 84-0341.
Funding Period: Start Date 01 Sep 83; End Date 30 Aug 84.
Fiscal Year Funding: $10,000.
Descriptors: Cooperative-Programs. Guides. School-Business-Relationship. Workshops.
Identifiers: State. Proposal.

Jointly sponsored by the State Council on Education for Employment, CBIA, Board of Trustees of Regional Community Colleges, and the New Britain Chamber of Commerce, the project will increase collaborative efforts between employers and educators. Workshop activities will be held at six sites to demonstrate effective models for establishing and sustaining private sector involvement in vocational education programs. Also, a manual will be produced and disseminated. Common goals and mutual concerns will be established as the basis for a continuing dialogue between public and private sectors.

CT8413206.

Vocational Improvement Practices (VIP) (Continuation of CT8313207).

Organization: Regional Educational Services Concept through Unified Effort (RESCUE) Goshen Road, RR #2, Litchfield, CT 06759.

Telephone: (203) 567-0863.

Sponsoring Agency: CC18825.

Contract/Control No.: CN: 84-1407.

Funding Period: Start Date 15 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Educational-Practices. Pamphlets. Teacher-Workshops.

Identifiers: State. Proposal.

In its third year, the program continues to identify promising practices in order to recognize and reward local educators and to disseminate information about successful locally developed vocational practices. Promising practices must (1) address the needs of specific target populations, (2) address specific problems, (3) have measurable indicators of success, and (4) exhibit attributes which make adoption or adaptation by other school districts practical. Secondary, postsecondary, and adult vocational practices will be evaluated by a committee of vocational educators. The recommended practices will receive a certificate, and a brochure describing them will be published and disseminated. Workshops will be held to familiarize other local educators with the practices.

Curriculum Development (Sec. 133)

CT8413301.

Allied Health Occupations 2—Curriculum Development Project.

Project Director: Muldowney, Arthur T.

Organization: Middletown Public Schools 310 Hunting Hill Avenue, Middlesex, CT 06457.

Telephone: (203) 347-4469.

Sponsoring Agency: Connecticut State Dept. of Education, Hartford.

Contract/Control No.: PN: PS84-0423.

Funding Period: Start Date 16 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,520.

Descriptors: Allied-Health-Occupations-Education. Career-Choice. Clinical-Teaching-Health-Professions. Core-Curriculum. Dental-Technicians. Medical-Technologists. Nurses. Nursing-Education. Orientation. Physical-Therapy-Aides. Radiologic-Technologists. Sex-Fairness.

Identifiers: State. Proposal.

A core curriculum for Allied Health Careers 2 will be developed. Five student learning packages will be developed in the following areas: medical laboratory technician, physical therapy technician, dental technician, and advanced nursing care. These packages will relate directly to the students' clinical placement at a number of health agencies. A unit on career choice free from sex bias will be developed and included in the curriculum. An orientation program for grade 8 and 10 students also will be developed.

CT8413302.

Curriculum Development—Summer 1983.

Project Director: Haddad, Frederick L.

Organization: State Department of Education 165 Capitol Avenue, Hartford, CT 06106.

Telephone: (203) 566-7418.

Sponsoring Agency: Connecticut State Dept. of Education, Hartford.

Contract/Control No.: PN: 84952.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $17,500.

Descriptors: Apprenticeships. Satellite-Facilities. Theories. Trade-and-Industrial-Education. Vocational-Schools.

Identifiers: State. Proposal. *Outlines.

Curriculum developed will include trade theory outlines and progress records, or, in apprentice courses, multiple theory outlines. This curriculum will be used in Connecticut's regional vocational-technical schools and satellite schools.

CT8413303.

Development of a Secondary-level Robotics Operation and Repair Curriculum.

Project Director: Besancon, Francis E.

Organization: Plymouth Board of Education Terryville High School, North Main Street, Terryville, CT 06786.

Telephone: (203) 583-1607.

Sponsoring Agency: Connecticut State Dept. of Education, Hartford.

Contract/Control No.: CN: 84-0038.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,000.

Descriptors: Employment-Qualifications. Entry-Workers. Job-Skills. Machine-Repairers. Retraining. Skill-Development.

Identifiers: State. Proposal. *Robotics.

A secondary level robotics operation and repair curriculum will be developed to provide secondary and adult vocational students with entry-level skills in the robotics industry. The curriculum will be designed (1) to enrich the current technology curricula, (2) as a one or two year curriculum offering, or (3) as a retraining program in adult education programs. Following a curriculum search, industrial firms will be identified that produce and/or use robots and numerical control equipment within Connecticut. Minimum skills required for entry level jobs will be determined as well as whether any robotics training programs exist that can be adapted to secondary-level programs. A search will be made for sources of equipment and supplies. A literature review will be performed, and a curriculum developed based on the data collected.

CT8413304.

Developing a Competency-based Component for the Connecticut Vocational Agriculture Curriculum.

Project Director: Manneback, Alfred J.

Organization: Eastconn PO Box 245, Route 203, North Windham, CT 06256.

Telephone: (203) 456-3254.

Sponsoring Agency: Connecticut State Dept. of Education, Hartford.

Contract/Control No.: CN: PS 83-1423.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,000.

Descriptors: Agricultural-Education. Check-Lists. Competency-Based-Education. Curriculum-Development.

Identifiers: State. Proposal.

Competency-based components will be introduced into the vocational agriculture curriculum. A literature search will be performed to identify competency-based vocational agriculture programs currently in use. A format to use in preparing the competencies will be designed. A sample of the chosen competencies will be field-tested by vocational agriculture teachers. The competencies then will be revised, printed, and added to the curriculum.

CT8413305.

Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.

Organization: Regional School District #10 20 Mills Drive, Burlington, CT 06013.

Telephone: (203) 673-2538.

Sponsoring Agency: Connecticut State Dept. of Education, Hartford.

Contract/Control No.: CN: PS #83-1340.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $10,000.

Descriptors: Business-Education. Grade-6. Grade-7. Grade-8. Junior-High-School-Students. Microcomputers. Middle-Schools. Pilot-Projects.

Identifiers: State. Proposal.

A seventh grade microcomputer keyboarding curriculum will be developed, pilot tested with a certified business teacher, and modified as necessary. A survey of all related curriculum materials and computer software will be conducted. Survey results will be reviewed and a curriculum guide prepared. The model curriculum delivered will be usable in grade 6, 7, or 8.

Florida

Research (Sec. 131)

FL8313110.

Context Evaluation and Status Study of Vocational Education in Florida (Continuation),

Organization: Center for Needs Assessment and Planning Florida State University, Tallahassee, FL 32306.

Telephone: (904) 644-6435.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FSU 4-3C21.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $16,890.

Descriptors: Educational-History. Oral-History. Policy-Formation.

Identifiers: State. Proposal.

A written history of vocational education in Florida will be produced. Also, oral history transcripts of vocational educators, state educational leaders, and policymakers will be produced. A chapter will be included on policy implications. Archival, library, and oral history research will be used to accomplish these tasks. Drafts of the narrative will be reviewed by active and retired vocational educators for comment. Oral transcripts will be reviewed by the interviewee. The final published history will be disseminated to school districts, community colleges, area vocational-technical centers, state boards of education, selected offices of the department of education, the division of vocational education, vocational education instructors at the state universities, and to each university library.

FL8413101.

The Identification of Recruitment Barriers to Vocational Training Programs as Perceived by Students, Teachers, Counselors and Administrators in Selected Florida Schools.

Project Director: Waltz, F.; And Others

Organization: University of Florida Department of Agricultural and Extension Education, 305 Rolfs Hall, Gainesville, FL 32611.

Telephone: (904) 392-0502.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: UF 4-2C31.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $31,000.

Descriptors: Educational-Research. Guides. School-Holding-Power. Student-Recruitment.

Identifiers: State. Proposal.

Disadvantaged, unemployed, underemployed, and out-of-school youth enrolled in postsecondary vocational education programs will be surveyed to determine the factors that contributed to their initial and continued enrollment. Data derived from earlier phases regarding identification of recruitment barriers will be combined with these data to develop a manual for implementing student retention strategies. The recruitment plan to be developed for use with the identified populations will include strategies, a calendar of activities, visual aids, brochures, sample letters, and a step-by-step recruitment procedure.

FL8413102.

Diffusion Network Model.

Project Director: Paugh, Robert

Organization: University of Central Florida College of Education, Box 25000, Orlando, FL 32816.

Telephone: (305) 275-2011.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: UCF 4-2C21.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $23,600.

Descriptors: Models. Networks. Teacher-Educators. Teacher-Workshops. Vocational-Education-Teachers.

Identifiers: State. Proposal.

A network model for the diffusion of occupational program products will be designed and field-tested. It will utilize the teaching skills of teacher educators and vocational teachers. Programs needing diffusion of instructional materials will be identified. Model components will be reviewed and materials to be diffused will be selected. Personnel to serve in the network will be identified, enlisted, and trained to conduct workshops and provide technical assistance. Continuous evaluation will be conducted by Department of Occupational Education personnel during model development and field-testing. A final report will be delivered.

FL8413103.

Special Studies for Florida Vocational Education (Continuation).

Project Director: Hollie B. Thomas

Organization: Florida State University 115 Stone Building, Tallahassee, FL 32306.

Telephone: (904) 644-6298.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FSU 4-2C22.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $42,800.

Descriptors: Consultants. Government-School-Relationship. Policy-Formation. Position-Papers. Program-Development. Proposal-Writing. Research-Methodology. Research-Needs. Research-Reports. Technical-Assistance.

Identifiers: State. Proposal. *Graduate Assistants.

The professional staff person and one graduate assistant will be hired through Florida State University to assist state department of vocational education personnel by (1) identifying statewide research and curriculum development needs; (2) developing position papers and related research documents; (3) developing, reviewing, and recommending research and curriculum development proposals; (4) providing consultative and technical assistance in invited research and curriculum development; (5) coordinating DVE comprehensive competency-based vocational education planning; (6) developing and maintaining liaison with federal, state, and local educators; and (7) coordinating the formulation and recommendation of policies and procedures for research.

FL8413104.

Provisions for Consultative Research Associate for Vocational Education.

Project Director: Hinely, Hugh

Organization: Florida State University 113 Stone Building, Tallahassee, FL 32308.

Telephone: (904) 644-6029.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FSU 4-1C11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $67,200.

Descriptors: Consultants. Coordination. Delivery-Systems. Supervision.

Identifiers: State. Proposal.

One professional education consultant and two clerical workers will be hired through Florida State University to assist state vocational education personnel. The consultant will (1) supervisor activities of research staff; (2) plan direction for research section development activities; (3) coordinate activities between research, program development, curriculum, and acquisition of teaching aids; and (4) assist in the coordination of dissemination/diffusion of final reports and projects.

FL8413105.

Provisions for Research Associate (Continuation).

Project Director: Thomas, Hollie B.
Organization: Florida State University 115 Stone Building, Tallahassee, FL 32306.
Telephone: (904) 644-6298.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU 4-2C23.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $32,800.
Descriptors: Consultants. Position-Papers. Program-Development. Program-Proposals. Research-Needs.
Identifiers: State. Proposal. *Graduate Assistants.

One professional education consultant and one graduate assistant will be hired to assist state vocational education personnel. Duties will include (1) identifying research priorities; (2) reviewing and recommending proposals; (3) monitoring projects; (4) supervising graduate assistants; (5) developing materials for local education agencies; (6) developing and drafting position papers; and (7) drafting five-year state plans, annual plans, and the annual accountability report.

FL8413106.
Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval.
Project Director: Mohamed, Dominic A.
Organization: Florida International University School of Education, Division of EPHRD, Tamiami Campus, Miami, FL 33199.
Telephone: (305) 554-3388.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU 4-2C11.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $22,000.
Descriptors: Administrator-Evaluation. Administrator-Qualifications. Competence. Criterion-Referenced-Tests. Test-Items. Test-Validity.
Identifiers: State. Proposal.

Three sets of criterion test items will be developed to assess the mastery of essential competencies needed by beginning vocational administrators. A task force will develop the items which will be reviewed for validity and reliability.

FL8413107.
Development of Professional Instructional Materials for Vocational Education Administrators.
Project Director: Mohamed, Dominic A.
Organization: Florida International University School of Education, Division of EPHRD, Tamiami Campus, Miami, FL 33199.
Telephone: (305) 554-3388.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FIU 4-3E21.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $19,965.
Descriptors: Administrator-Education. Competency-Based-Education. Consortia. Inservice-Education. Instructional-Materials. Management-Development. Modules. Preservice-Teacher-Education. Professional-Development.
Identifiers: State. Proposal.

Florida, in a consortium of several states, will develop, review, field-test, produce, and disseminate instructional modules for training vocational administrators at preservice and inservice levels. The modules will be field-tested in member states. The modules will include evaluation instruments and will solicit comments and evaluation from the users. Florida will receive fifteen copies of each of the twenty-nine performance-based modules.

FL8413108.
A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel.
Project Director: Stakenas, Robert G. Phone: (904) 644-6435.
Organization: The Florida State University Center for Needs Assessment and Planning, Tallahassee, FL 32306.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU 4-2C22.
Funding Period: Start Date 01 Jul 83.
Fiscal Year Funding: $20,000.
Descriptors: Classification. Evaluation-Methods. Feedback. Followup-Studies. Pilot-Projects. Summative-Evaluation.
Identifiers: State. Proposal.

A system to evaluate research and development products will be designed. It will be able to track products over short and long periods of time. System objectives will be identified, products classified, and the classification process analyzed. Pilot testing will be accomplished via follow-up studies on selected products. The feedback system also will be field-tested. A mission statement for the proposed delivery system and a mission profile containing all the required functions will be delivered.

FL8413109.
Developing a Master Plan for Improving Competency-based Vocational Education.
Project Director: Stakenas, Robert G.
Organization: Center for Needs Assessment and Planning Florida State University, Tallahassee, FL 32306.
Telephone: (904) 644-6435.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU-4-3C22.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $20,000.
Descriptors: Competency-Based-Education. Delivery-Systems. Human-Resources. Master-Plans. Program-Implementation. Program-Improvement. Program-Design. Program-Evaluation. Statewide-Planning.
Identifiers: State. Proposal.

A proposed master plan will be developed for improving competency-based vocational education (CBVE) in Florida. It will describe components needed to implement, operate, and coordinate the resource-linking system, and will include rationales for the strategies on which the master plan is based. The plan will also identify the clients to be served and determine how they are to be served. Human and material resources required will be determined. A time frame for producing products and systems to improve delivery of CBVE will be developed. Technical reviews of the materials will be obtained from teachers, teacher educators, and department of vocational education personnel. Components of the master plan will be critiqued and resulting comments addressed in the final draft of the plan.

FL8413111.
Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs.
Project Director: Bacon, E. Miles
Organization: 3323 Belvedere Road, West Palm Beach, FL 33402.
Telephone: (305) 684-5130.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: PAL 4-2C11.
Funding Period: Start Date 01 Aug 83; End Date 31 Aug 84.
Fiscal Year Funding: $30,000.
Descriptors: Competency-Based-Education. Models. Program-Development. Program-Validation. Vocational-Training-Centers.
Identifiers: State. Proposal.

A curriculum development specialist will document the applicability of the Orange County CBVE Planning Model at three technical centers in Palm Beach County. The planning model for CBVE in multi-centers within a county structure then will be documented for statewide use. The specialist also will procure audiovisual materials, equipment, and other materials for orienting county vocational educators to the multi-center CBVE planning system. A final report will be delivered.

FL8413112.
Follow-up Evaluation Project.

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Project Director: Mills, Philip

Organization: Miami-Dade Community College, South 1011 SW 104th Street, Miami, FL 33127.

Telephone: (305) 596-1375.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: MDCC 4-2C21.

Funding Period: Start Date 31 Jan 84; End Date 31 Aug 84.

Fiscal Year Funding: $22,950.

Descriptors: Community-Colleges. Comparative-Analysis. Competence. Employer-Attitudes. Employment-Potential. Graduates. Job-Skills. Program-Evaluation. School-Business-Relationship.

Identifiers: State. Proposal.

Determination will be made of how to implement changes in vocational and occupational programs that will enable Miami-Dade Community College (MDCC) to better meet the needs of potential employers, thereby enhancing the employability of graduates. Specifically, capabilities that potential employers seek in program completers will be identified, as well as capabilities of the program completers. Potential differences between those sets of capabilities then will be identified. Also, valid assessment tools will be designed to evaluate students' capabilities prior to completing training and to evaluate the capabilities of former students in job performance. These assessment results will be compared to determine areas that require reinforcement. Results of the comparisons then will be distributed to the person who could implement corrective action. If necessary, new time tables, credit requirements, and perhaps new courses will be established to insure that graduates possess the necessary capabilities. Finally, an ongoing internal evaluation system will be established so that MDCC will remain current in meeting the needs of potential employers. A final report will be delivered.

FL8413113.

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.

Project Director: Sorg, Steven E.

Organization: University of Central Florida PO Box 25000, Orlando, FL 32816.

Telephone: (305) 275-2013.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: UCF 4-2C23.

Funding Period: Start Date 15 Nov 83; End Date 31 Aug 84.

Fiscal Year Funding: $27,982.

Descriptors: Competency-Based-Education. Force-Field-Analysis. Educational-Administration. Identification. Program-Implementation. Problems.

Identifiers: State. Proposal.

The barriers to implementation of competency-based vocational education (CBVE) in Florida's community colleges and area vocational-technical centers will be identified through three one-day force field analysis work sessions. Each session will identify perceived barriers related to facility requirements, staff development funding for curriculum, procedural revisions, and role changes. Perceived barriers then will be confirmed and solutions for overcoming them proposed through use of a modified Delphi strategy, case studies at four centers, and telephone conferences with successful CBVE implementors. Finally, implications for policy formation and implementation at the administrative level will be described. An interim report of identified barriers and a final report of barrier descriptions, strategies with solutions for overcoming them, and implications will be delivered.

FL8413114.

Development of a Model for Technical Updating of Vocational Teachers in Florida.

Project Director: Rader, Billie T.

Organization: The University of West Florida Pensacola, FL 32504.

Telephone: (904) 474-2296.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: UWF 4-1C11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $32,843.

Descriptors: Industrial-Arts-Teachers. Program-Development. State-Programs. Teacher-Improvement. Vocational-Education-Teachers.

Identifiers: State. Proposal.

A statewide plan for technical updating of vocational education teachers will be developed. Appropriate information and instructional sources available from businesses and industries will be determined. Also, following establishment of advisory committees in each region of Florida's regions 1-4, vocational and industrial arts teachers' technical instruction needs in each occupational area will be identified, using representatives from business and industry and schools. Industry's capabilities to deliver the instruction needed then will be identified and assessed. A final report with a teacher technical needs profile will be delivered.

FL8413115.

Successful Practices in Educational Settings for Working with Handicapped Students.

Project Director: Robinson, Dolores

Organization: Florida State University Educational Leadership, 113 Stone Building, Tallahassee, FL 32306.

Telephone: (904) 644-6029.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FSU 4-1C41.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $20,250.

Descriptors: Demonstration-Programs. Disabilities. Educational-Practices. Identification. Teaching-Methods.

Identifiers: State. Proposal.

The Success Factor Rating Scale and questionnaire will be used to identify Florida sites that have exemplary programs or practices in working with handicapped students. A brochure of exemplary programs and a roster of directors or teachers responsible for administration, implementation, and evaluation of the exemplary programs then will be produced for teachers of handicapped students.

FL8413116.

Comprehensive Planning for Competency-based Vocational Education (CBVE) Implementation—Teacher Education and School Programs.

Project Director: Fardig, Glen

Organization: University of Central Florida PO Box 25000, Orlando, FL 32816.

Telephone: (305) 275-2332.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: UCF 4-2C22.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $15,000.

Descriptors: Competency-Based-Education. Program-Development.

Identifiers: State. Proposal.

Members of a CBVE School Committee will be identified and convened to (1) identify need in performance-based vocational teacher education within the state university system of Florida, (2) develop a demographic profile on each institution by area of expertise, and (3) determine the extent of preservice and inservice support available to local education agencies and vocational teachers. The committee then will devise strategies for developing a statewide plan responsive to the needs of vocational education at all levels. A final report will be delivered.

FL8413117.

Coordination of Special Evaluation Activities.

Project Director: Martin, Joseph

Organization: Florida A&M University Martin Luther King Boulevard, Tallahassee, FL 32307.

Telephone: (904) 599-3000.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FAMU 4-1C11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $81,050.

Descriptors: Coordination. Observation. Program-Evaluation. Program-

Implementation. State-Programs. Systems-Development. Validity.
Identifiers: State. Proposal.

Several developmental, validation, monitoring, and implementation objectives will be accomplished. A statewide system for evaluation of vocational programs, services, and activities will be refined, as well as instrumentation and procedures for follow-up of students and employers. Follow-up analyses will be conducted with computer assistance and coordinated with community colleges. Also, evaluation systems designed to assess the effectiveness of special programs, (Vocational-Technical Education Consortium of States, Vocational Information Materials Acquisition System, etc.) and activities funded through the Division of Vocational Education will be formulated and implemented. Another system—for identification of occupational proficiency performance standards for selected vocational programs and special activities related to the development and validation of written and performance tests—will be monitored, and updated measures based on current occupational analyses will be provided. In addition, procedures will be developed to evaluate the extent to which special populations (women, minorities, and disadvantaged persons) are served by vocational education, including effectiveness of the Individualized Manpower Training Program. Finally, procedures will be developed and implemented to evaluate special programs including career education, vocational guidance, vocational teacher knowledge, and use of competency-based education. Throughout the project, attention will be given to reporting information and providing assistance in its use to local and state educators. A final report will be delivered.

FL8413118.
Catalog of Innovations (Continuation of FL8313102).
Project Director: Lathrop, Robert
Organization: Florida State University Center for Studies in Vocational Education, 2003 Apalachee Parkway, Tallahassee, FL 32301.
Telephone: (904) 644-2440.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU 4-2C21.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $9,000.
Descriptors: Adoption-Ideas. Demonstration-Programs. Educational-Innovation. Information-Dissemination.
Identifiers: State. Proposal.

Pertinent information regarding exemplary and innovative programs will be gathered and publicized in the 'Florida Vocational Journal' to influence 20,000 vocational education personnel to adopt new practices. Outstanding projects identified by occupational program directors and through program review procedures will be visited to verify that the program is innovative and to interview administrators, teachers, students, and sometimes employers. Also, photographs will be taken of the program. A feature article or news brief then will be written for the journal.

FL8413119.
Third Party Evaluation of Florida Education Information Service (FEIS).
Project Director: Drummond, R. J.
Organization: University of North Florida PO Box 17074, Jacksonville, FL 32216.
Telephone: (904) 646-2666.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: UNF 4-2C21.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $11,700.
Descriptors: Cost-Effectiveness. Program-Effectiveness. Program-Evaluation. Search-Strategies. Summative-Evaluation.
Identifiers: State. Proposal. *Florida Education Information Service.

The evaluation will be conducted to determine (1) whether or not the FEIS is an effective means of providing a high quality comprehensive search capability for Florida educators, (2) whether or not FEIS is cost effective, and (3) via a random sampling by program area and by region, to what extent Florida educators are aware of the services FEIS provides. Strengths and weaknesses of the system will be identified, and recommendations will be made for strengthening the system. Evaluation will be based upon a thorough study of the documentation gleaned from interviews with FEIS staff, Division of Vocational Education staff, and selected users. Attention will be given to survey instruments, structured interviews, and other types of instrumentation used in similar types of studies and summative evaluation identified in data bases.

Exemplary and Innovative (Sec. 132)

FL8413201.
Continuation of Job Related Physical Capacity (JRPC).
Organization: Leon County School Board Career Development Services, 2757 West Pensacola Street, Tallahassee, FL 32304.
Telephone: (904) 488-0400.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: LEO 4-1D41.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $30,000.
Descriptors: Computer-Programs. Data-Collection. Guides. Microcomputers. Modules. Occupational-Information. Physical-Disabilities. Program-Development. Training-Methods.
Identifiers: State. Proposal.

A training module that teaches data collection, a revised and expanded Aids and Accomodations manual, and a microcomputer software system will be developed. Additional occupational descriptions will be added to the manual. The microcomputer program will access Job Related Physical Capacity files. Other career information systems will be identified and added to these files. All materials and/or products will be pilot tested.

FL8413202.
Career Aspirations of Disadvantaged Students (Continuation of FSU3-2D31).
Project Director: Maurice, Clyde
Organization: Florida State University 113 Stone Building, Tallahassee, FL 32306.
Telephone: (904) 644-6029.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: FSU 4-2D31.
Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.
Fiscal Year Funding: $2,000.
Descriptors: Data-Analysis. Occupational-Aspiration. Problems.
Identifiers: State. Proposal.

Further analysis will be provided of data derived from an earlier survey of a sample of disadvantaged students and their parents to identify reasons for low job expectations or aspirations and perceived barriers to high paying occupations. A final report will be delivered.

FL8413203.
Training Materials for Teachers of Disadvantaged Students in Vocational Education.
Project Director: Drummond, Robert J.
Organization: University of North Florida 4567 St. Johns Bluff Road South, Jacksonville, FL 32216.
Telephone: (904) 646-2838.
Sponsoring Agency: Florida State Dept. of Education, Tallahassee.
Contract/Control No.: CN: UNF 4-2D31.
Funding Period: Start Date De c 3.
Fiscal Year Funding: $18,000.
Descriptors: Evaluation-Criteria. Instructional-Materials. Validation.
Identifiers: State. Proposal.

State and local personnel will validate criteria for analyzing existing vocational education preservice and inservice training materials identified for meeting specific needs in six categories and listed by category. Through content and thematic analysis, they then will identify and list discrepancies between the existing materials available and those desired. Selected vocational educators also will be surveyed and interviewed to identify areas in which discrepancies exist. Additionally, discrepancies between materials in vocational education and those in other fields will be reviewed. The final report delivered will include an annotated listing and critical analysis of training programs by the six components, as well as specific recommendations for the development or adoption of preservice and inservice training materials. Printed documents and data disks of the materials also will be delivered.

Curriculum Development (Sec. 133)

FL8413301.

Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project.

Project Director: Jackson, Thomas.

Organization: College of Education, Florida A&M University Tallahassee, FL 32301.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FAMU 4-2E21.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $127,500.

Descriptors: Catalogs. Competence. Systems-Approach. Validated-Programs.

Identifiers: State. Proposal. *Air Force. *Vocational Technical Education Consortium States.

Catalogs of competencies in selected occupations will be developed to serve as a curriculum basis for occupational programs in vocational education. V-TECS staff will develop the catalogs through a systems approach validated by the United States Air Force and the eleven consortium member states. Program evaluation will be conducted via impact assessment and ongoing revision of the development process.

FL8413302.

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).

Project Director: Lathrop, Robert

Organization: Florida State University Center for Studies in Vocational Education, 113 Stone Building, Tallahassee, FL 32306.

Telephone: (904) 644-2440.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FSU 4-1E11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $157,100.

Descriptors: Information-Dissemination. Information-Retrieval. Information-Services. Information-Systems. Online-Systems. Reference-Services. Resource-Centers. Resource-Materials.

Identifiers: State. Proposal. *Florida Educators Information Service.

Florida Educators Information Service will be continued to provide vocational educators with assistance in clarifying and describing their resource needs and with computerized and manual searches of state and national sources to help them locate resource materials. Educators also will be provided with increased accessibility to the resources relevant to their described information needs and with materials and information disseminated free or for a minimal charge.

FL8413303.

Audiovisual Materials for the Disadvantaged (Continuation of DUV 3-1E31).

Project Director: Downing, Charles

Organization: Duval County School Board 1701 Prudential Drive, Jacksonville, FL 32207.

Telephone: (904) 390-2000.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: DUV 4-1E31.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $36,403.

Descriptors: Audiovisual-Aids. Audiovisual-Instruction. Disadvantaged-Youth. Specialists.

Identifiers: State. Proposal.

An audiovisual specialist will be provided to work with state curriculum teams to develop audiovisual curriculum materials for disadvantaged students that will match curriculum objectives from these project teams. The specialist and local teachers will collaborate on scripts and film scripts for the films and film strips.

FL8413304.

Program Guide for Word Processing Occupations.

Project Director: Allen, W. Carolyn

Organization: Valencia Community College 1800 South Kirkman Road, Orlando, FL 32802.

Telephone: (305) 299-5000.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: VACC-4-2E21.

Funding Period: Start Date 28 Nov 83; End Date 31 Aug 84.

Fiscal Year Funding: $1,250.

Descriptors: Information-Dissemination. Program-Development. Program-Guides.

Identifiers: State. Proposal.

The program guide, to be published and distributed through the state department of education, will identify the major concerns that should be considered in the organization, operation, and evaluation of a vocational education program. Project staff will research state statutes, review curriculum material already prepared (business education levels 1-4), review published resource materials, and contact key educators for input.

FL8413305.

Competency-based Education Project.

Project Director: Capp, Laura

Organization: Seminole Community College Sanford, FL 32771.

Telephone: (305) 323-1450.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: SECC 4-3E21.

Funding Period: Start Date 29 Nov 83; End Date 31 Aug 84.

Fiscal Year Funding: $55,000.

Descriptors: Competence. Competency-Based-Education. Computer-Oriented-Programs. Individualized-Instruction. Noncredit-Courses. Occupational-Information. Program-Implementation. Study-Guides.

Identifiers: State. Proposal.

Occupational analyses and student learning guides in additional programs will be produced, as well as a computer-managed system for documenting ongoing student attainment of competencies, in an endeavor to implement competency-based, individualized instruction in all noncredit vocational programs. In addition, travel and per diem will be provided to support a task force appointed by the Division for Community Colleges to develop statewide recommendations for communication and computation competencies for associate in science (A.S.) degree programs. Specifically, project staff will continue verifying competencies in noncredit vocational programs, preparing student learning guides, and conducting competency-based vocational education-related staff development activities. Communication and computation skills needed for A. S. degree students will be identified, and the instrument developed among the community colleges to measure those competencies will be field-tested. Recommendation of such an instrument will be made to the state board of education.

FL8413306.

Program Guide for Data Processing Occupations.

Project Director: Temple, J. E.

Organization: Santa Rosa County School District 801 Caroline Street, SE, Room 106, Milton, FL 32570.

Telephone: (305) 623-3663.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: SAN 4-E11.

Funding Period: Start Date 12 Dec 83; End Date 31 Aug 84.

Fiscal Year Funding: $1,250.

Descriptors: Data-Processing. Data-Processing-Occupations. Improvement. Program-Development. Program-Guides.

Identifiers: State. Proposal.

A writing committee composed of a secondary data processing instructor and other resource persons will formulate the guide for secondary and postsecondary schools which will suggest curriculum, instructional equipment, materials, resources, and audiovisual materials to assist in training students and all potential clientele to enter a data processing occupation or advance within the field. Standards of input, process, and product will be used to develop a program in which students will develop competencies in data processing terminology, equipment operation, programming, and data processing applications to other business fields. An occupational advisory committee will review and validate the curriculum.

FL8413307.

Curriculum Development for Industrial Education Programs.

Project Director: Hill, Raymond

Organization: University of South Florida 4202 Fowler Avenue, Tampa, FL 33620.

Telephone: (813) 974-3456.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: USF 4-1E11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $120,615.

Descriptors: Articulation-Education. Measurement-Techniques. Merit-Rating. Program-Guides. Trade-and-Industrial-Education.

Identifiers: State. Proposal. Vocational Industrial Clubs of America.

Eight instruments or career maps will be designed to provide for merit achievement documentation and articulation matrix advancement procedures for comprehensive high schools, area vocational-technical centers and community colleges. Also, program guides will be developed for twenty-five areas and will include program or course overview and content, teacher certification and qualification, facility design criteria and recommended equipment lists, and support resources. Advisory committees composed of selected industry and education experts will be established in each trade and industrial area under study, and inservice training on use of the career maps and program guides will be provided for instructors and administrators in the program areas involved. All programs will include active participation in state and national Vocational Industrial Clubs of America (VICA) activities. Staff will attend and participate in meetings, workshops, and seminars at the local, state, and national level involving trade and industrial occupation program areas and high technology or advancing technolgies and will maintain a current library of information concerning curriculum development derived from this participation. They also will meet with selected high technology industry representatives and with selected educational institutions, adapting existing high technology programs where appropriate. A final report will be delivered.

FL8413308.

Membership Requirements for IDECC (Continuation).

Project Director: Buckner, Leroy M.

Organization: Florida Atlantic University College of Education, Boca Raton, FL 33431.

Telephone: (305) 393-3564.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FAU 4-2E21.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $10,000.

Descriptors: Competency-Based-Education. Consortia. Distributive-Education. Marketing.

Identifiers: State. Proposal. Interstate Distributive Education Curriculum Consortium.

The membership fee will be paid to Interstate Distributive Education Curriculum Consortium (IDECC) to enable Florida to benefit from the competency-based marketing and distributive education materials available at a 40 percent discount. Field occupational research will be conducted in entrepreneurship and submitted to IDECC for further curriculum development activities. Finally, test items will be written for learning activity packages suitable for use in IDECC. Training, materials, and assignments for writers will be provided through a workshop with consultants from IDECC. A final report will be delivered.

FL8413309.

Instructional Guides for Fundamentals of Marketing Occupation and Marketing Distribution.

Project Director: Buckner, Leroy M.

Organization: Florida Atlantic University College of Education, Boca Raton, FL 33431.

Telephone: (305) 393-3564.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: FAU 4-1E11.

Funding Period: Start Date 01 Jul 83; End Date 31 Aug 84.

Fiscal Year Funding: $2,000.

Descriptors: Distributive-Education. Marketing. Program-Implementation. Teaching-Guides.

Identifiers: State. Proposal.

Guides or instructional formats will be provided for teachers, administrators, and teacher educators to use with the Fundamentals of Marketing and Distribution programs. Essential components of the guides will be identified. Occupations in each program will then be identified and leveled, common objectives or competencies for the identified jobs in each program identified, and a topical outline identified for each occupational level. Examples of planning a unit of instruction will be provided. Additionally, major instructional resources needed to meet program objectives will be identified. This information then will be combined in a guide for program implementation, which will be field reviewed by selected marketing and distributive education personnel. Finally, special equipment and materials essential for instruction will be indicated.

FL8413310.

Follow-up and Evaluation Project.

Project Director: Bedics, Richard A.

Organization: Pensacola Junior College 5555 West Highway 98, Pensacola, FL 32507.

Telephone: (904) 476-5410.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: PEJC 4-2E21.

Funding Period: Start Date 27 Oct 83; End Date 31 Aug 84.

Fiscal Year Funding: $18,400.

Descriptors: Associate-Degrees. Correlation. Course-Content. Courses. Employer-Attitudes. Employment-Qualifications. General-Education. Integrated-Curriculum. Minimum-Competencies. Program-Development.

Identifiers: State. Proposal.

The correlated and integrated associate in science (A.S.) degree curriculum resulting from this project will be disseminated to other community colleges. Project staff will identify, define, and correlate the minimum competencies with each A. S. degree program as they relate to employer expectation, general education, College Level Academic Skills Test (CLAST), and occupational-vocational support courses. Faculty teams then will be coordinated within the occupational-vocational support courses, general education courses, and A. S. degree program to write the curriculum, which will be correlated and program-mapped to meet employer expectations. Procedures will involve the vocational-occupational and general education support courses and CLAST. The goals of each A. S. degree program will be integrated and correlated with each support course and CLAST, major concepts for each will be identified, and each course mapped. Additionally, classroom activities will be identified, and evaluative criteria to measure goal attainment will be developed for each support course. A final report will be delivered.

FL8413311.

Vocational Program Mapping and Follow-up Evaluation.

Project Director: Barrs, Al

Organization: Chipola Junior College Marianna, FL 32446.

Telephone: (904) 526-2761.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: CHJC 4-3E21.

Funding Period: Start Date 02 Nov 83; End Date 31 Aug 84.

Fiscal Year Funding: $35,050.

Descriptors: Charts. Competence. Curriculum-Guides. Job-Analysis. Matrices. Program-Development. Task-Analysis. Vocational-

Followup.

Identifiers: State. Proposal.

The occupational analysis method will be used to develop maps for individual vocational program general areas of competence and tasks, as well as a vocational program completer follow-up evaluation tool in the form of a vocational cross-walk competency matrix chart with a local validated accuracy level of 100 percent. Two workshops will be conducted: one, a modified Council for Advancement of Experiential Learning (CAEL) program mapping workshop for vocational learning managers, and the second to develop the cross-walk competency matrix chart. Occupational analysis of training programs also will be conducted. The program maps and the matrix will be included in the final report to be delivered.

FL8413312.

Follow-up and Evaluation Projects.

Project Director: Goetsch, David L.

Organization: Okaloosa-Walton Junior College 100 College Boulevard, Niceville, FL 32578.

Telephone: (904) 678-5111.

Sponsoring Agency: Florida State Dept. of Education, Tallahassee.

Contract/Control No.: CN: OWJC 4-3E21.

Funding Period: Start Date 26 Oct 83; End Date 31 Aug 84.

Fiscal Year Funding: $18,600.

Descriptors: Competence. Curriculum-Development. Evaluation-Methods. Models. Program-Development. Program-Evaluation. Vocational-Followup.

Identifiers: State. Proposal.

A successful curriculum development model will be developed to show educators how to (1) identify the occupational and academic competencies in a vocational program, (2) develop procedures for assessing student performance in terms of the competencies; (3) develop procedures for assessing student performance in applying the competencies on the job; (4) develop a plan for using feedback data based on evaluations before graduation and on the job in making management decisions; and (5) develop a plan for setting minimum standards of performance in terms of the competencies for awarding certificates and degrees. The project facilitator will work with the college's welding faculty, advisory committee, representatives from local industry at all levels, similar personnel from other schools in the state, and academic personnel in accomplishing the objectives. The procedures for evaluating student competencies prior to graduation will be field-tested with assistance from the college welding faculty; procedures for evaluation of application of competencies on the job will be field-tested in the local industrial community. This follow-up information will be used in evaluating and revising curriculum. A final report will be delivered.

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Georgia

Exemplary and Innovative (Sec. 132)

GA8413201.

Microcomputers in Secondary Guidance and Counseling.

Organization: Newton County School System 3187 Newton Drive, NE, Covington, GA 30209.

Telephone: (404) 787-1330.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940689.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413202.

Microcomputers in Secondary Guidance and Counseling.

Organization: Union County School System School Street, Blairsville, GA 30512.

Telephone: (404) 745-2322.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940692.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413203.

Microcomputers in Secondary Guidance and Counseling.

Organization: Brooks County School System 704 North Tallokas Road, PO Box 511, Quitman, GA 31643.

Telephone: (912) 263-7531.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940694.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413204.

Microcomputers in Secondary Guidance and Counseling.

Organization: Columbia County School System PO Box 10, Appling, GA 30802.

Telephone: (404) 541-0650.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940695.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413205.

Microcomputers in Secondary Guidance and Counseling.

Organization: Atlanta City School System 210 Pryor Street, Atlanta, GA 30335.

Telephone: (404) 659-3381.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940702.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413206.

Microcomputers in Secondary Guidance and Counseling.

Project Director: Phone: (404) 445-6661.

Organization: Paulding County School System 522 Hardee Street, Dallas, GA 30132.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940720.

Funding Period: Start Date 15 May 84; End Date 15 May 85.

Fiscal Year Funding: $4,000.

Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.

Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413207.

Microcomputers in Secondary Guidance and Counseling.

Organization: Irwin County School System 210 Apple Street, Ocilla, GA

31774.
Telephone: (912) 468-5524.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940721.
Funding Period: Start Date 15 May 84; End Date 15 May 85.
Fiscal Year Funding: $4,000.
Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.
Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413208.
Microcomputers in Secondary Guidance and Counseling.

Organization: Dade County School System PO Box 188, Case and Crabtree Streets, Trenton, GA 30752.
Telephone: (404) 657-4361.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940722.
Funding Period: Start Date 15 May 84; End Date 15 May 85.
Fiscal Year Funding: $4,000.
Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.
Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413209.
Microcomputers in Secondary Guidance and Counseling.

Organization: Wayne County School System 555 South Sunset Boulevard, Jesup, GA.
Telephone: (404) 427-4244.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940723.
Funding Period: Start Date 15 May 84; End Date 15 May 85.
Fiscal Year Funding: $4,000.
Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.
Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413210.
Microcomputers in Secondary Guidance and Counseling.

Organization: Lamar County School System 204 Gordon Road, Barnesville, GA 30204.
Telephone: (404) 358-1159.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940746.
Funding Period: Start Date 15 May 84; End Date 15 May 85.
Fiscal Year Funding: $4,000.
Descriptors: Career-Guidance. Career-Planning. Computer-Oriented-Programs. Computer-Software. School-Counselors.
Identifiers: State. Proposal. Software Evaluation.

Staff members, including at least one guidance counselor, will attend a three-day training session so that they can provide students with current career planning information, expand their own knowledge of effective career guidance software, and assist students with microcomputer operation. The training will include computer literacy, software evaluation, and implementation strategies. Participants will develop an implementation plan.

GA8413211.
A Presentation of Secondary Vocational Education in Georgia.

Project Director: Holcomb, Jack
Organization: North Georgia Cooperative Educational Service Agencies Route 3, Box 232A, Ellijay, GA 30540.
Telephone: (404) 635-5391.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940696.
Funding Period: Start Date 15 May 84; End Date 16 Jul 84.
Fiscal Year Funding: $6,000.
Descriptors: Exhibits. Publicity. Public-Relations.
Identifiers: State. Proposal.

A professionally developed exhibit will be produced to increase public awareness about public secondary vocational education programs. On seven panels, the exhibit will describe the major programs offered statewide; the center panel will tie all the programs together through a rotographic display. The exhibit will be movable and will be used at various state, regional, and local meetings around the state.

GA8413212.
Computer Workshop for Diversified Cooperative Training (DCT) Teachers.

Project Director: Scott, C. Paul
Organization: University of Georgia 628 Aderhold Hall, Athens, GA 30619.
Telephone: (404) 542-3891.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940748.
Funding Period: Start Date 01 May 84; End Date 16 Jul 84.
Fiscal Year Funding: $3,800.
Descriptors: Computer-Managed-Instruction. Computer-Oriented-Programs. Computer-Software. Coordinators. Staff-Development. Workshops.
Identifiers: State. Proposal. *Diversified Cooperative Training.

The workshop will use lecture and hands-on computer training to help DCT coordinators and teachers develop skills in developing, revising, and managing DCT instructional programs and develop competencies in microprocessing. As a result of participating in this workshop, DCT coordinators will be able to develop a program management system and an instructional system to include directly and indirectly related instruction, training plans, and agreements, as well as a testing component. Programs will be upgraded by conversion of paper materials to the microcomputer.

GA8413213.
Vocational Education—Georgia Outstanding Students.

Project Director: McDaniel, Maureen
Organization: 1153 Longshore Drive, Decatur, GA 30032.
Telephone: (404) 284-0691.
Sponsoring Agency: Georgia State Dept. of Education, Atlanta.
Contract/Control No.: CN: 940629.
Funding Period: Start Date 01 Ma 84; End Date 01 Apr 84.
Fiscal Year Funding: $250.
Descriptors: Academically-Gifted. Competition. Television.
Identifiers: State. Proposal.

On-camera service as host or moderator will be provided for the Georgia outstanding student competition.

GA8413214.
Training and Implementation of Computer-managed, Competency-

based New Teacher Institution.

Project Director: Flowers, Anne

Organization: Georgia Southern College Box 8033, Statesboro, GA 30460.

Telephone: (912) 681-5449.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940536.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 85.

Fiscal Year Funding: $19,893.

Descriptors: Beginning-Teachers. Competence. Guides. Institutes-Training-Programs. Teaching-Guides.

Identifiers: State. Proposal.

Teachers, teacher educators, state staff, and vocational supervisors will be provided with training and accompanying materials for implementation and operation of a computer-managed, competency-based new teacher institution (NTI). The project director will work with the state department of education monitor to develop an ongoing plan for formative education. One thousand copies of an NTI handbook, four hundred copies of an NTI competency manual, and four hundred copies of a user's manual will be produced.

GA8413215.

Model Management Process for a Statewide Criterion-Referenced Testing Program.

Project Director: Scott, Paul

Organization: University of Georgia College of Education, 628-C Aderhold Hall, Athens, GA 30602.

Telephone: (404) 542-3891.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940225.

Funding Period: Start Date 10 Sep 83; End Date 31 Dec 84.

Fiscal Year Funding: $30,000.

Descriptors: Administration. Computer-Oriented-Programs. Computers. Criterion-Referenced-Tests. Student-Evaluation.

Identifiers: State. Proposal.

Processes will be developed for micro and main frame computer use in cataloging and managing test items, validating and norming test items, disseminating tests to local education agencies, analyzing items, and identifying new items. Needs data will be gathered from several affected sources to provide content and format information. Experts will validate test items. Both formative and summative evaluation will take place. A quality control committee will perform the formative process; summative evaluation will consist of determining the degree to which each objective is addressed through written statements.

GA8413216.

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.

Project Director: Allen, Gerald

Organization: Pickens Area Vocational-Technical School 240 Burnt Moutain Road, Jasper, GA 30143.

Telephone: (404) 692-3411.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940768.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,000.

Descriptors: Computer-Aided-Instruction. Computer-Software. Cosmetology. Learning-Modules. Summative-Evaluation.

Identifiers: State. Proposal.

Following identification or development of an instrument for evaluating computer software, two cosmetology postsecondary instructors will complete the software evaluation form on each of the eleven computerized modules and supporting materials developed by the New York Oswego County Board of Cooperate Educational Services. The computerized modules then will be correlated with the appropriate units of instruction that are currently being taught in the cosmetology program. The necessary microcomputer will be purchased with appropriate furniture, maintenance, supplies, and training for evaluation. Finally, students at different levels of completion will be chosen to field-test five or more modules. A summary report of field-test and evaluation results will be developed with recommendations and suggestions for use. Project results will be disseminated through presentations at inservice and other teacher professional meetings.

Curriculum Development (Sec. 133)

GA8413301.

Proposal to Conduct Phase 5 of the Office Simulation Project.

Organization: Georgia State University Vocational and Career Development Department, 401 Courtland Street Building, Atlanta, GA 30303.

Telephone: 658-2500.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940113.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $40,000.

Descriptors: Instructional-Materials. Material-Development. Office-Occupations-Education. Simulation.

Identifiers: State. Proposal.

The university will continue the development, validation, and implementation of office simulation instructional materials for use in office occupations programs. Staff will develop and field-test materials for individualizing Shorthand 2, as well as task simulation materials and position simulation materials for word processing correspondence specialist, word processing administrative assistant, accounts receivable clerk, and accounts payable clerk. The shorthand, task, and position simulation materials then will be edited and revised and one camera-ready master prepared.

GA8413302.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.

Organization: Southern Association of Colleges and Schools 795 Peachtree Street, NE, Atlanta, GA 30365.

Telephone: (404) 897-6100.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940119.

Funding Period: Start Date 01 Sep 83; End Date 30 Sep 84.

Fiscal Year Funding: $71,500.

Descriptors: Academic-Achievement. Computer-Oriented-Programs. Item-Banks. Evaluation-Methods. Information-Retrieval. Models. Systems-Development. Test-Items.

Identifiers: State. Proposal. Vocational Technical Education Consortium States.

A conceptual model for assessing student performance in occupational education programs and a system for implementing and managing the model will be developed in four phases. A strategic plan for assessing student performance will be developed, then designed around a selected occupational program. The model and implementation system then will be developed. Finally, the model and system will be pilot tested and, if necessary, revised. Among the several products will be a computerized system to store, retrieve, and make available the criterion-referenced test items and instruments to educators. A program will be designed to acquaint educators with the model, its potential uses, directions for use, and the application of results.

GA8413303.

High Technology Curriculum Development and Dissemination.

Organization: Georgia State University Vocational and Career Development Department 401 Courltand Street Building, Atlanta, GA 30303.

Telephone: (404) 658-2500.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940144.

Funding Period: Start Date 01 Aug 83; End Date 31 Jul 84.

Fiscal Year Funding: $35,000.

Descriptors: Annotated-Bibliographies. Course-Descriptions. Curriculum-Guides. Electrical-Occupations. Electromechancial-

Technology. Electronics. Mechanical-Design-Technicians. Program-Development. Staff-Development. Technological-Advancement.

Identifiers: State. Proposal.

Curriculum and staff development begun in a series of previous projects will be completed. The outline of work on all courses in high technology curriculum will be completed, and program guides will be produced in electronics, electromechanics, and mechanical technology. Additionally, an annotated bibliography of curriculum resources will be produced to support the high technology courses. Finally, staff development activities for teachers will be organized and scheduled that support high technology courses. One camera-ready copy of products in each of the three subject areas will be delivered. Information from these projects will serve as planning and curriculum guides for high technology postsecondary programs.

GA8413304.

Development of a Revised Curriculum Guide for the Secondary Electromechancial Cluster.

Organization: University of Georgia Division of Vocational Education, College of Education, Athens, GA 30602.

Telephone: (404) 542-3891.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940620.

Funding Period: Start Date 01 Feb 84; End Date 24 Dec 84.

Fiscal Year Funding: $23,000.

Descriptors: Curriculum-Development. Curriculum-Guides. Electrical-Occupations. Electromechanical-Technology.

Identifiers: State. Proposal.

Based on the recommendations generated through an electromechanical workshop, the university will develop, field-test, and implement a revised and updated curriculum guide for the electromechanical cluster. The revised guide will focus on curriculum objectives and instructional strategies that reflect needs created by technology and advancements. Staff development will be conducted for appropriate personnel. One camera-ready master and 300 copies of the curriculum guide will be delivered. The copies will be disseminated throughout the state through a series of staff development activities.

GA8413305.

Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course.

Organization: University of Georgia Division of Vocational Education, College of Education, Athens, GA 30602.

Telephone: (404) 542-3891.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940637.

Funding Period: Start Date 28 Feb 84; End Date 10 Aug 84.

Fiscal Year Funding: $10,000.

Descriptors: Curriculum-Development. Curriculum-Guides. Distributive-Education. Introductory-Courses. Marketing.

Identifiers: State. Proposal.

Selected sections of the curriculum guide will be developed and field-tested. Staff development activities will be conducted for appropriate personnel to enable implementation of the guide. One camera-ready master and 400 copies of the guide will be delivered.

GA8413306.

Staff Development Curriculum for High Technology Instructors.

Organization: Georgia State University University Plaza, Atlanta, GA 30303.

Telephone: (404) 656-2550.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940662.

Funding Period: Start Date 19 Mar 84; End Date 30 Jun 85.

Fiscal Year Funding: $77,000.

Descriptors: Advisory-Committees. Course-Outlines. Knowledge-Level. Long-Range-Planning. Staff-Development. Teaching-Skills. Technological-Advancement. Vocational-Education-Teachers.

Identifiers: State. Proposal.

A staff development curriculum will be developed and implemented statewide to upgrade the teaching skills and knowledge of postsecondary school instructors of high technology courses. A course outline will be developed. On-site developmental and training workshops will be arranged, and participants' progress will be monitored. Abet-approved course planning documents will be developed, and a functional curriculum advisory council will be established. Staff development activites will be evaluated and documented. Results will be an approved course outline for the high technology instructors and a formalized long range plan for the development of technical instructors. A formal project evaluation report also will be delivered.

GA8413307.

Curriculum Guide for First Year General Marketing Program in the Secondary School Level.

Organization: Georgia State University Occupational and Career Development Department, 401 Courtland Street Building, Atlanta, GA 30303.

Telephone: (404) 659-2500.

Sponsoring Agency: Georgia State Dept. of Education, Atlanta.

Contract/Control No.: CN: 940655.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $9,987.

Descriptors: Curriculum. Curriculum-Development. Curriculum-Guides. Distributive-Education. Instructional-Development. Introductory-Courses. Marketng.

Identifiers: State. Proposal.

Selected sections of the curriculum guide will be developed, with concentration on curriculum content. Materials will be validated through field reviews. Also, an instructional plan will be designed for the development and operation of marketing and distributive education. Staff development activities, in which the curriculum guides will be disseminated, will be conducted for appropriate personnel in conjunction with the University of Georgia.

Hawaii

Research (Sec. 131)

HI8413101.

Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations.

Project Director: White, Barbara

Organization: Office of the State Director for Vocational Education 2327 Dole Street, Honolulu, HI 96822.

Telephone: (808) 948-7461.

Sponsoring Agency: Hawaii State Dept. of Education, Honolulu.

Contract/Control No.: PN: 84-0-5.

Funding Period: Start Date 01 Nov 82; End Date 31 Aug 84.

Fiscal Year Funding: 84; 2218.

Descriptors: Apprenticeships. Comparative-Analysis. Educational-Research. Enrollment-Influences. Females. Group-Dynamics. Peer-Influence. Problems.

Identifiers: Federal. Proposal.

This study will compare the factors influencing the entrance, participation, and completion of women in the apprenticeship programs under the aegis of Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations. Present and former women apprentices will be queried to determine the differences or similarities in their backgrounds and experience, as well as their reasons for entering apprenticeship. Responses from the two groups of women as to the deterrents and positive influences they experienced while in apprenticeship also will be compared. Following this analysis, recommendations will be made to administrators of apprenticeship and education programs to assist them in improving opportunities for women apprentices. A 100-page document will be produced which includes the questionnaire, comments from the women who responded to the survey instrument, analyses of data, and recommendations.

Illinois

Research (Sec. 131)

IL8413101.
Illinois Plan for Industrial Education.
Project Director: Loepp, Franzie
Organization: Illinois State University Industrial Technology Department, Turner Hall, Normal, IL 61761.
Telephone: (309) 438-2380.
Sponsoring Agency: Illinois State Office of Eduation, Springfield.
Contract/Control No.: PN: R-31-64-D-0513-154.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $70,000.
Descriptors: Industrial-Education. Information-Dissemination. Inservice-Education. Master-Plan. Orientation. Program-Implementation.
Identifiers: State. Proposal.

Using input from the Industrial Joint Staff and marketing experts, project staff will design and begin implementing a comprehensive dissemination and inservice plan for acquainting administrators, school board members, and industrial education teachers with the industrial education plan. The twenty-four three-week exploratory units developed previously will be field-tested, evaluated, and revised accordingly. Orientation courses in communication, energy utilization, production, and transportation will be implemented in approximately thirty school systems using no more than sixty teachers who will attend inservice workshops. Camera-ready copy for a curriculum guide orientation course will be completed. Other activities will include coordinating activities for high technology for vocational education and developing a model four-year program to prepare teachers to teach the content suggested by the industrial education plan. A final report will be delivered.

IL8413102.
Illinois Vocational Curriculum Center.
Project Director: Douglass, Rebecca
Organization: Sangamon State University Sangamon State University (E-22), Springfield, IL 62708.
Telephone: (217) 786-6375.
Sponsoring Agency: Illinois State Office of Eduation, Springfield.
Contract/Control No.: PN: R-31-44-X-0551-437.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $163,850.
Descriptors: Curriculum-Study-Centers. Educational-Resources. Information-Centers. Information-Dissemination. Information-Services. Information-Utilization. Instructional-Materials. Technical-Assistance.
Identifiers: State. Proposal.

Information resources will be provided for improving state capabilities and services in regard to vocational curriculum materials; the efficient use of resources at state and local levels will be promoted. A system will be provided for evaluating curriculum products and for making curriculum products and information available to state and local decision makers. Curriculum resources and services relative to state agency program improvement priorities will be refined and expanded. Finally, microcomputer assistance will be provided for vocational educators' software and hardware needs. Teachers will be able to select and use quality and relevant instructional materials through increased access to available materials. Products will include updated bibliograhies, quarterly reports, an annual report, an annual services questionnaire report, and monthly MEMOs.

IL8413103.
Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes.
Project Director: Coale, Jack
Organization: Program Management Associates 530 South Grand West, Springfield, IL 62704.
Telephone: (217) 544-3737.
Sponsoring Agency: Illinois State Office of Eduation, Springfield.
Contract/Control No.: PN: R-31-24-X-0332-474.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $60,000.
Descriptors: Material-Development. Orientation-Materials. Videotape-Recordings.
Identifiers: State. Proposal. *Computer Assisted Drafting. *Computer Assisted Manufacturing.

Five videotapes will be prepared and distributed to all educational television stations in Illinois to enable students, parents, and members of the general public to understand the projected change in the manufacturing process in the next twenty years. Available videotape and film materials will be collected, reviewed, and edited. Five scripts will be prepared and original visual illustrations created. Edited masters will be developed and materials duplicated. Vocational education agencies will receive mailings of the broadcast times so that they may duplicate the materials off the air for continued use. The videotapes and a final report will be delivered.

IL8413104.
High Technology Training Publication.
Project Director: Stromberg, Elden
Organization: ComUnigraph, Inc. 530 South Grand West, Springfield, IL 62704.
Telephone: (217) 544-3737.
Sponsoring Agency: Illinois State Office of Eduation, Springfield.
Contract/Control No.: PN: R-31-14-X-1103-489.
Funding Period: Start Date 01 Jul 83; End Date 31 Dec 83.
Fiscal Year Funding: $35,000.
Descriptors: Admission-Criteria. Guides. High-Technology. Labor-Needs. Occupational-Information. Publications.
Identifiers: State. Proposal.

Information related to twenty-five high technology industries identified by the Illinois Department of Commerce and Community Affairs will be published, using a four-color process, to make students, parents, guidance counselors, and administrators aware of occupations and employment opportunities in high technology industries and to provide a guide of applicable secondary and postsecondary training programs and entry requirements. The publication also will enable schools and community colleges to showcase their programs and will be an aid for state representatives showing Illinois's capacity to train skilled workers for corporations contemplating relocation. Descriptive copy, photographs, and a program availability matrix will be prepared, followed by preparation of edited copy, camera-ready artwork, and proofs. Publication printing, binding, and shipping will be coordinated. Quarterly and final reports will be delivered, and copies of the publication will be disseminated to all Illinois school districts and community colleges.

IL8413105.
Business and Industry-based Instruction Developed by Community Colleges in Illinois.
Project Director: Hagemeister, Mary
Organization: John Wood Community College RR 2, Mendon, IL 62351.
Telephone: (217) 936-2440.
Sponsoring Agency: Illinois State Office of Eduation, Springfield.
Contract/Control No.: PN: R-31-14-X-0332-492.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $14,980.
Descriptors: Cooperative-Programs. Directories. Program-Development. School-Business-Relationship.
Identifiers: State. Proposal.

A directory will be prepared of the contractual and cooperative training arrangements with business and industry and community colleges, and a model will be developed for community colleges to use in developing their own programs with industry and business. High technology areas will be emphasized. All Illinois community colleges and the businesses and industries with whom they have training arrangements will be surveyed. Surveys and personal interviews will be conducted with community colleges that have more active and viable programs. The information will be demonstrated in a matrix form. A model will be developed for development of such cooperative training. The study will serve as (1) a model for businesses and industries for using local community colleges for personnel training, (2) an economic development tool to give pertinent education information to businesses contemplating location or relocation, and (3) a counseling tool to help high school and college counselors identify community colleges where students can receive high technology education in nontraditional areas.

IL8413106.

Feasibility Study to Assess Alternative Energy Program Development Potential at the Community College Level.

Project Director: Blair, Brittain A.

Organization: Southeastern Illinois College RR 4, Harrisburg, IL 62946.

Telephone: (618) 252-6376.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-14-X-0332-509.

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $15,950.

Descriptors: Feasibility-Studies. Power-Technology. Program-Development.

Identifiers: State. Proposal.

Project staff will review current literature and information on exemplary vocational training programs in alternative energy technologies to select a number to visit and evaluate. Following visitation, a community survey will be conducted to determine public need, demand, and support for such a program. A feasibility study report will be drafted based on Southeastern's capacity to implement a diversified alternative energy technologies program. In addition to the feasibility study report, progress and final reports will be delivered.

IL8413107.

Microcomputer Applications: An Impact for Local Vocational Programs.

Project Director: Roth, Gene

Organization: Idaho State University Pocatello, ID 83209.

Telephone: (208) 236-3807.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-14-X-1102-494.

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $38,339.

Descriptors: Check-Lists. Computer-Oriented-Programs. Guides. Improvement. Resource-Materials. Staff-Development. Workshops.

Identifiers: State. Proposal.

The means for upgrading the skills, attitudes, and knowledge of administrative personnel, student services personnel, and instructional personnel regarding expanded applications of microcomputers will be provided. A comprehensive listing will be compiled of nonprogramming applications categorized by vocational discipline: agriculture, business, office and marketing, home economics, trade and industrial, and health-related. A Dacum profile of nonprogramming competencies for the applications also will be compiled. A competency-based resource handbook then will be developed and assembled. A workshop instructional management plan will be designed for at least four workshops, and a cadre of at least ten vocational educators will be trained to workshop facilitators. At least 120 secondary and postsecondary vocational educators will receive inservice training. Quarterly and final reports and 200 copies of a competency-based resource handbook will be delivered.

IL8413108.

MICRO-VERS Version 2.0, Update, Research and Technical Assistance.

Project Director: Naylor, James

Organization: VESCOM Associates 135-H Bruce Circle Drive, Lockport, IL 60441.

Telephone: (815) 838-5710.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-24-D-0512-484.

Funding Period: Start Date 15 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $33,567.

Descriptors: Computer-Oriented-Programs. Computer-Programs. Educational-Administration. Guides.

Identifiers: State. Proposal.

Two computer programs with user's guides will be produced, and at least one person will be trained to provide technical assistance to local education agencies (LEAs) and other state staff. Also, the feasibility will be explored of using disk output for final reports, which will allow the uploading of data to the main frame computer at state board headquarters. The program and manual for MICRO-VERS, Version 2.0 for the Apple microcomputer will be revised with necessary corrections, and the TRS-80 program and manual will be written and field-tested in two LEAs. Utility programs necessary to output local data to disk for uploading purposes will be written.

IL8413109.

Innovative Vocational Education Delivery System.

Project Director: Scarborough, Jule

Organization: Northern Illinois University Department of Industry and Technology, DeKalb, IL 60115-2854.

Telephone: (815) 753-0516.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-24-X-1102-472.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,000.

Descriptors: Delivery-Systems. Educational-Innovation. Employment-Potential. Job-Skills. Performance. Technical-Education.

Identifiers: State. Proposal.

Technical units of study on occupational survival skills, employability skills, and technical content directly related to technical courses will be adapted or developed in a format compatible with delivery to students traveling on school buses to and from area vocational centers and other sites serving as parts of cooperative agreements. On an attitude measure, students will report an increase in the educational value they place on their transportation time. Teachers will report that most of their participating students exhibit increased competence in occupational survival, employability skills, and technical content. At the conclusion of each unit of study, most participants who study the units will increase their post-unit scores by 50 percent or more over their pretests. An expanded model of the instructional package developed and field-tested will be delivered, as well as instructional materials including units and audiotape recordings.

IL8413110.

Development of a Competency-based Instruction Curriculum for Biotechnology.

Project Director: Parker, Lynn

Organization: Triton College 2000 Fifth Avenue, River Grove, IL 60171.

Telephone: (312) 456-0300.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-X-0332-506.

Funding Period: Start Date 15 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,228.

Descriptors: Competency-Based-Education. Occupational-Information. School-Business-Relationship.

Identifiers: State. Proposal. *Biotechnology. *Developing a Curriculum. *Emerging Occupations.

The need for the development of a biotechnician curriculum will be investigated. If the need is indicated, a competency-based curriculum will be developed using the DACUM (Developing a Curriculum) process. Research will be conducted on the need for biotechnicians, and appropriate job descriptions will be formulated. Companies will be visitied and asked to supply expert workers/supervisors to participate in the DACUM process. Curriculum will be developed and revisions suggested. Final recommendations will be included in the final report. This project will enhance faculty and staff curriculum development skills. Students will benefit by learning skills in the evolving growth area of biotechnology.

IL8413111.

Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2.

Project Director: Huck, John

Organization: Southern Illinois University—Carbondale Vocational Education Studies, Carbondale, IL 62901.

Telephone: (618) 453-3321.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-X-1102-464.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $58,762.

Descriptors: Computer-Assisted-Instruction. Delivery-Systems. Multimedia-Instruction. Technological-Advancement.

Identifiers: State. Proposal. *Microprocessors.

Reports will be compiled to provide a synopsis of the current and potential uses of microprocessors for delivery of vocational education. A transportable model for familiarizing vocational teachers and teacher educators with a multimedia approach to instructional delivery using microprocessors will be refined. The educational potential of various technological apparatuses will be examined. Computer-assisted instruction lessons will be developed. Workshops will be held to disseminate project findings. A final report will be delivered.

IL8413113.

High School and Beyond Longitudinal Study—Augmentation.

Project Director: Coleman, James

Organization: National Opinion Research Center 6030 South Ellis, Chicago, IL 60637.

Telephone: (312) 753-1441.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-D-0513-454.

Funding Period: Start Date 01 Jul 83; End Date 30 Sep 83.

Fiscal Year Funding: $10,000.

Descriptors: Data-Collection. Followup-Studies. Graduate-Surveys. High-School-Graduates. High-School-Students. Longitudinal-Studies. Program-Costs. Questionnaires.

Identifiers: State. Proposal.

This project will help Illinois participate in the first follow-up of the High School and Beyond study by helping to defray the costs for the design of an Illinois sample, development of questionnaires, and a description of the data collection plan.

IL8413113.

Vocational Information Center Project.

Project Director: Teal, Jack

Organization: Illinois Central College East Peoria, IL 61635.

Telephone: (309) 694-5227.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-X-0332-503.

Funding Period: Start Date 15 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $14,750.

Descriptors: Career-Planning. Community-Programs. Computer-Oriented-Programs. Delivery-Systems. Occupational-Information.

Identifiers: State. Proposal.

Four vocational information centers will be implemented in four area public libraries for the purpose of career planning assistance. Microcomputer-based delivery systems and supportive printed materials will be installed in each selected library. Inservice workshops will be held at each site for library personnel. Personnel then will assist vocational information seekers in using the delivery systems. A final report will be delivered.

IL8413115.

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.

Project Director: Daniels, Harry; Karmos, Joe

Organization: Southern Illinois University—Carbondale Guidance and Educational Psychology, Carbondale, IL 62901.

Telephone: (618) 536-7763.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-D-0364-460.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $59,970.

Descriptors: Change. Change-Agents. Change-Strategies. Skill-Development. Teaching-Methods. Technological-Advancement. Technology.

Identifiers: State. Proposal.

Educational strategies and procedures will be developed to prepare students to adapt to the new technology. Students will be able to assume responsibility for the management and direction of their careers. A conceptual model for introducing change skills instruction into vocational programs will be developed. A matrix of change skills and teaching strategies will be built, and a catalog of procedures for change skills instruction will be developed. The extent to which vocational education is already using change skill instruction will be assessed. Quarterly and final reports will be delivered.

IL8413116.

The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.

Project Director: Phelps, L. Allen; Kazanas, H. C.

Organization: University of Illinois 345 Education Building, 1310 South Sixth Street, Champaign, IL 61820.

Telephone: (217) 333-2325.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-D-0222-470.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $37,576.

Descriptors: Diagnostic-Tests. Evaluation-Methods. Functional-Literacy. Learning-Problems. Learning-Readiness. Mathematics-Achievement. Performance-Tests. Skill-Analysis.

Identifiers: State. Proposal. *Generalizable Mathematics Skills.

A set of practical instruments will be provided for assessing student's generalizable mathematics skills in the secondary vocational training programs. The instruments will identify the functional learning abilities and problems of students having difficulty completing their programs. This program will help in the delivery of instructional, remedial, and support services. This project's activities will be coordinated with the 'Change Skills' project's activities. A set of student self-ratings will be developed, as well as teacher ratings and performance test assessment instruments designed to measure generalizable math skills. Copies of the final product, 'Mathematics Skills User Manual', and of the quarterly and final reports will be delivered.

IL8413117.

Chicago Coalition—Education/Training Employment.

Project Director: Schwartz, Bernard

Organization: Education Network for Older Adults 36 South Wabash, Suite 624, Chicago, IL 60603.

Telephone: (312) 782-8967.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-X-0512-480.

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,684.

Descriptors: Community-Colleges. Educational-Resources. Employment-Projections. Human-Resources. Labor-Market. Labor-Needs. Labor-Supply. School-Business-Relationship.

Identifiers: State. Proposal.

Chicago industry, business organizations, schools, and adult organizations will be brought together in an ongoing forum and task forces to better address employment needs according to labor market supply and demand. Information will be exchanged and distributed and research subgroups designated. Attention will be focused on community colleges as a special educational resource. Problems and potential solutions in education for employment will be identified. Education for employment of unused human resources will be identified and promoted.

IL8413118.

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan.

Project Director: McCormick, Fred

Organization: Educational Operations Concepts, Inc. 1773 Skillman West, Saint Paul, MN 55113.

Telephone: (612) 633-1103.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-14-X-0334/341-496.

Funding Period: Start Date 25 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Data-Analysis. Program-Content. Program-Design. Program-Effectiveness. Program-Evaluation.

Identifiers: State. Proposal. *Impact Evaluation.

An evaluation of the quality assistance plan (QAP) will be conducted. A composite review of the QAPs will be developed and the short-term impact of a subset of the plans assessed. Data from this assessment will be summarized. Then, a long-term impact assessment will be conducted. Positive and negative characteristics of the QAP process and of the Impact Assessment Design (IAD) will be documented. Improvements in the QAP and the IAD will be recommended to facilitate local program/personnel improvement. Assessment results and a final report will be delivered.

IL8413119.

Leadership Development Program in Vocational Special Needs Education.

Project Director: Phelps, L. Allen

Organization: University of Illinois 1310 South Sixth Street, Champaign, IL 61820.

Telephone: (217) 333-2325.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-N-0332-501.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Educational-Needs. Inservice-Education. Leadership-Training. Pamphlets. School-Districts. Special-Programs. Staff-Development.

Identifiers: State. Proposal.

A competency- and field-based personnel development program will be developed to increase the capacity and effectiveness of thirty school districts in meeting the vocational education needs of special populations. Local leadership personnel will be selected to facilitate ongoing staff development and program improvement activities within their districts. Personnel will be supplied with competencies in vocational education special needs programming and staff development. Program improvement and/or inservice activities within the selected districts will be developed, implemented, and evaluated. Program evaluation will be conducted through participant feedback. A brochure describing program objectives and outcomes as well as future plans will be prepared and disseminated. Copies of the brochure and of the final report will be delivered.

IL8413120.

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education.

Project Director: Lopez-Valadez, Jeanne

Organization: Northwest Educational Cooperative 500 South Dwyer Avenue, Arlington Heights, IL 60005.

Telephone: (312) 870-4150.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-C-0332-502.

Funding Period: Start Date 15 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $14,148.

Descriptors: Computer-Assisted-Instruction. Computer-Programs. Curriculum-Development. Electricity. Electronics. English-Second-Language. Guides. Limited-English-Speaking.

Identifiers: State. Proposal. *Vocational English as a Second Language.

A prototype software program and accompanying user's manual will be developed to teach vocational English related to basic electricity/electronics to limited English proficient (LEP) students. This vocational language will be identified from VESL materials, computer text analysis, and compilation of oral language samples. Curriculum will be developed for use on the Apple computer. Worksheets will be translated into basic programming. The prototype will be pilot tested in three vocational training sites. After review, the program and manual will be revised. Also, a master software program and accompanying user's manual will be developed to teach vocational related language which can be adapted to multiple vocational training areas. Copies of both programs and manuals and of the final report will be delivered.

IL8413121.

Five County Regional Vocational System: Regional Communications Model.

Project Director: Miller, Curtis

Organization: Alexander-Johnson-Massac-Pulaski-Union County Second and Washington Streets, Tamms, IL 62988.

Telephone: (618) 747-2703.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-X-0332-505.

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $8,000.

Descriptors: Communications. Parent-School-Relationship. Public-Relations. School-Business-Relationship. School-Community-Relationship. Student-School-Relationship.

Identifiers: State. Proposal.

The image of vocational education will be improved/promoted via improved communications among employers, local educators, parents, students, and other supporting agencies. Leadership will be provided to develop a regional vocational advisory committee, and a newsletter will be developed to present information concerning vocational education. A brochure will be written to provide an overview of vocational education and training: types of programs, contact person, etc. It will be distributed through direct mailings. A public relations program with a monthly calendar of events will be developed.

IL8413122.

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.

Project Director: Johnson, Jerry G.

Organization: Regional Superintendent of Schools 1000 North Main, Barnes, Anna, IL 62906.

Telephone: (618) 833-4202.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-24-X-0214-469.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $35,000.

Descriptors: Annotated-Bibliographies. Classroom-Techniques. Guides. Models. Program-Development. Skill-Development. Student-Organizations.

Identifiers: State. Proposal. *Economic Literacy. *Replication.

A replicable model will be designed that infuses economic literacy components and their concepts leading to student skill development for effective functioning in society. The model will be developed in a manner suitable for K-12 classrooms. An annotated bibliography of economic literacy instructional materials and the Vocational Student Organizations' Handbook Supplement will be written. The term 'economic literacy' will be described and its components and their concepts identified. Copies of all materials and of the final report will be delivered.

IL8413123.

The Northern Illinois Management Model for Employment

Training and Economic Development.

Project Director: Harris, E. Edward

Organization: Northern Illinois University Business Education and Administration Services, DeKalb, IL 60115.

Telephone: (815) 753-1298.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-24-D-0411-483.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,306.

Descriptors: Economic-Development. Job-Training. Management-Systems. Material-Development. Retraining. School-Role. Clearinghouses.

Identifiers: State. Proposal.

A management model for employment training and economic development will be created to serve the 50 percent of the population who will need to receive training or retraining every five years. Educators will be trained via color cassette videotapes and coordinated print media. An additional eight hours of cassettes and print media will be developed in the following areas: (1) how to recruit, hire, train, and evaluate (summative and formative staff); (2) how to customize training needs of firms using on-line supervision and management personnel; (3) developing a training information clearinghouse; (4) effective internal and external public relations and sales promotion techniques; and (5) sources of information on how to finance a business. Research and field tests will be conducted on the role of community colleges as brokers and providers of training and of universities as brokers and providers of research and technical assistance. A final report will be delivered.

IL8413124.

Standardized Procedures for Follow-Up Assessment.

Project Director: Browning, William

Organization: Lawrence Adult Center 101 East Laurel, Springfield, IL 62704.

Telephone: (217) 525-3249.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-X-0332-490.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,996.

Descriptors: Automation. Followup-Studies. Relevance-Education. Self-Concept. Systems-Development.

Identifiers: State. Proposal. *Impact Evaluation. *Work Patterns.

A system for long-term follow-up and assessment of adult education students will be developed and field-tested to determine the impact of adult education on students' work patterns and self perception, relevance of their training programs, and program cost-effectiveness. Existing systems will be reviewed and data collected. A proposed standardized system will be developed, and adult central staff will be instructed in its administration. Following field-testing of the introductory processes, staff will gather, record, and analyze data. Automated data collection systems then will be designed and field-tested. One hundred copies of the project and twelve copies of a final report will be delivered.

IL8413125.

Identification and Assessment of Vocational Education Outcomes.

Project Director: Wentling, Tim

Organization: University of Illinois 32 Education Building, 1310 South Sixth Street, Champaign, IL 61820.

Telephone: (217) 333-0185.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-14-D-0124-487.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $50,622.

Descriptors: Data-Collection. Data-Evaluation. Evaluation-Methods. Outcomes-of-Education. Program-Evaluation. Program-Validation. Synthesis.

Identifiers: State. Proposal.

Outcomes of vocational education in Illinois will be identified and evaluated. The current status of outcome evaluation will be assessed and a bibliography of models submitted. An initial validation of proposed outcomes will be conducted, as well as a field validation. Procedures and plans for testing them will be developed for collecting, evaluating, and using data. A synthesis conference on vocational education outcomes evaluation will be planned.

IL8413126.

Vocational Education's Role(s) in Economic Revitalization—Phase 2.

Project Director: Leach, James

Organization: University of Illinois 347 Education Building, 1310 South Sixth Street, Champaign, IL 61820.

Telephone: (217) 333-0185.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-24-D-0332-481.

Funding Period: Start Date 01 Jul 83; End Date 31 Jan 84.

Fiscal Year Funding: $33,439.

Descriptors: Audiotape-Recordings. Economic-Development. Information-Dissemination. School-Role. Slides.

Identifiers: State. Proposal.

A document titled 'Education for Employment: Planning for Economic Development—A Strategic Approach' will be produced along with an accompanying slide/tape. ComUnigraph will be subcontracted to produce the document and tape. Also, the outcomes of the 'Vocational Education's Role in Economic Revitalization' project will be disseminated. Activities outlined in the dissemination plan will be implemented. These projects will help educators; business, industry, and labor personnel; and government personnel be aware of and understand (1) the goals and outcomes of economic development; (2) the need for organized, planned, and coordinated efforts between the public and private sectors; (3) the identified roles of each group; and (4) strategies for planning and implementing economic development activities. Project activities will help communities increase productivity and work satisfaction; increase job opportunities; and improve quality of life. A final report will be delivered.

IL8413127.

Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar.

Project Director: Witt, Eldon E.

Organization: Illinois Coordinating Council for Vocational Student Organizations 204 Husseman, Box 466, Roanoke, IL 61561.

Telephone: (309) 923-7413.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-31-14-X-0332-495.

Funding Period: Start Date 01 Jul 83; End Date 10 Aug 84.

Fiscal Year Funding: $15,450.

Descriptors: Competence. Leadership-Training. Student-Organizations. Workshops. Youth-Leaders.

Identifiers: State. Proposal.

A three-day workshop program will be developed to acquaint the officers with the competencies needed by student leaders. The workshop will be used to prepare a list of potential improvements in future leadership seminars. The workshop will result in a cadre of student leaders to assist in further developing the goals and objectives of state vocational organizations and student leaders capable of intergrating youth leadership activities into local organizations and classroom instruction. Coordination will be developed between the state student advisory council and vocational student organizations and the methods and procedures used by these organizations to develop leadership skills. A final report including participant evaluation will be delivered.

IL8413128.

Principles of Technology.

Project Director: Walcoff, Larry

Organization: Agency for Instructional Television 1111 West Seventeenth Street, Box A, Bloomington, IN 47402.

Telephone: (812) 339-2203.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-31-14-X-0332-510.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $29,818.

Descriptors: Consortia. Instructional-Materials. Laboratory-Experiments. Modules. Teaching-Guides. Technical-Education. Technology. Videotape-Recordings.

Identifiers: State. Proposal.

The Center for Occupational Research and Development and the Agency for Instructional Television will form a consortium of state and provincial agencies to develop thirteen instructional modules for secondary level courses teaching the principles of technology. These modules will consist of thirteen teacher and student manuals, 156 laboratory exercises and demonstrations, and 500 minutes of video.

Curriculum Development (Sec. 133)

IL8413301.

Illinois Core Curriculum in Agriculture Project.

Project Director: Russell, Earl; Courson, Roger

Organization: University of Illinois 357 Education Building, 1310 South Sixth Street, Champaign, IL 61820.

Telephone: (217) 333-3166.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-33-24-D-0362-466.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $104,113.

Descriptors: Agricultural-Education. Core-Curriculum. Horticulture. Learning-Modules. Material-Development.

Identifiers: State. Proposal.

Units, problem areas, and job competencies to be included in the RAP Core 4 and MAP Core 4 curricula for twelfth grade vocational agriculture/horticulture program will be identified. Forty to fifty instructional packets will be developed, evaluated, and revised. All materials needed to provide students with entry-level employment skills then will be finalized. Twenty-five to thirty summer regional workshops will be conducted to instruct 300-400 teachers in proper use of the materials. Finally, a curriculum planning guide will be prepared for teachers.

IL8413302.

Marketing Curriculum Guides Dissemination 2.

Project Director: Luft, Roger

Organization: Southern Illinois University—Carbondale Vocational Education Studies, Business Education Program, Carbondale, IL 62901.

Telephone: (618) 453-3321.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-33-24-D-0362-448.

Funding Period: Start Date 01 Jul 83; End Date 30 Oct 83.

Fiscal Year Funding: $6,993.

Descriptors: Curriculum-Guides. Delivery-Systems. Distributive-Education. Inservice-Teacher-Education. Marketing. Teacher-Workshops.

Identifiers: State. Proposal.

The Marketing Planning Guide will be revised and disseminated through inservice workshops for Illinois secondary and postsecondary marketing distributive education teachers. The revision will (1) reflect changes in classification of occupational codes; (2) add a section describing the process for competency identification and validation; and (3) add a section suggesting methods for using curriculum guides. Copies of the final report and of the market planning guide will be delivered.

IL8413303.

Phase 5 Planning for the Development of Comprehensive, Sequential Vocational Home Economics Curriculum.

Project Director: Griggs, Mildred

Organization: University of Illinois Department of Vocational and Technical Education, College of Education, 345 Education Building, Urbana, IL 61801.

Telephone: (217) 333-0807.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-33-14-D-0362-363.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $55,065.

Descriptors: Fashion-Industry. Instructional-Materials. Occupational-Home-Economics. Older-Adults.

Identifiers: State. Proposal.

New home economics curriculum materials will be developed and delivered to teachers and administrators. Materials will include curriculum for Fashion-Fabric Coordinator and Understanding of and Employment with the Elderly. Four existing programs will be expanded through the development of additional materials. Inservice instruction for teachers will be provided through professional meetings, workshops, and the telephone network. Small network/linkage groups of teachers will be organized. A final report will be delivered.

IL8413304.

V-TECS (Vocational-Technical Education Consortium of States).

Project Director: McCage, Ronald D.

Organization: Southern Association of Colleges and Schools 795 Peachtree Street, NE, Atlanta, GA 30365.

Telephone: (404) 897-6157.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-33-74-X-0361-189.

Funding Period: Start Date 19 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Behavioral-Objectives. Catalogs. Check-Lists. Competency-Based-Education. Consortia. Task-Analysis. Teaching-Guides.

Identifiers: State. Proposal. *Vocational Technical Education Consortium States.

Valid catalogs and guides will be developed of duties, tasks, performance objectives, performance guides, learning activities, student information sheets, and tools and equipment for use in vocational-technical education curriculum development. Procedures include developing preliminary lists of tasks and tools and equipment based on literature reviews of selected occupational domains; refining the lists; obtaining responses to occupational inventories; converting tasks to performance objectives; and refining the field-tested catalogs and their accompanying performance guides, which include resources, learning activities, and evaluation procedures. Consortium membership allows states to share research and developmental costs, minimize duplication of effort in occupational analysis and curriculum development, share the cost of computer equipment and technical personnel, and promote the concept of performance-based vocational-technical education with the learner as focal point.

IL8413305.

Curriculum Publications Clearinghouse.

Project Director: Miller, F. Gene

Organization: Western Illinois University Horrabin Hall 46, Macomb, IL 61455.

Telephone: (309) 298-1917.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: CN: R-33-74-D-0372-173.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $101,728.

Descriptors: Clearinghouses. Curriculum-Guides. Delivery-Systems. Instructional-Materials. Program-Implementation. Publications. Technical-Assistance.

Identifiers: State. Proposal.

A curriculum publications clearinghouse will be developed to provide curriculum materials on a cost recovery basis. It also will help implement the dissemination and technical assistance system. Materials will be printed, reproduced, acquired, and stored before distribution. Processing, shipping, billing, receiving, advertising, and recordkeeping procedures will be carried out. Ideas for development of the dissemination and technical assistance system will be suggested and critiqued. Copies of all materials will be delivered.

IL8413306.

Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide.

Project Director: McDonald, Bruce

Organization: Southern Illinois University—Carbondale Vocational Education Studies, Carbondale, IL 62901.

Telephone: (618) 453-3321.

Sponsoring Agency: Illinois State Office of Eduation, Springfield.

Contract/Control No.: PN: R-33-24-D-0361-467.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $44,969.

Descriptors: Business-Education. Secretaries. Teaching-Guides. Word-Processing.

Identifiers: State. Proposal. *Vocational Technical Education Consortium States.

The design of the guide will be finalized following established V-TECS guidelines. The units developed and field reviewed will contain the articulated contents of the six secretary/word processing V-TECS catalogs plus learning activities, information sheets, and evaluation processes. The guide also will contain lists of tools and equipment, definitions of terms, a bibliography, and a user's guide including the master matrix of all units, tasks, and catalog materials. A final report will be delivered.

Indiana

Exemplary and Innovative (Sec. 132)

IN8413202.

Comprehensive Region 1 System for Planning and Coordinating Vocational Education.

Project Director: Manigualt, Juan A.

Organization: Gary Career Center 1800 East Thirty-fifth Avenue, Gary, IN 46409.

Telephone: (219) 962-7571.

Sponsoring Agency: Indiana State Board of Vocational And Technical Education, Indianapolis.

Contract/Control No.: CN: 26-84-3-2.

Funding Period: Start Date 01 Nov 83; End Date 01 Nov 84.

Fiscal Year Funding: $40,030.

Descriptors: Consortia. Coordination. Educational-Cooperation. Regional-Planning. Regional-Programs.

Identifiers: State. Proposal.

An organizational structure and related procedures will be developed and implemented for planning and coordinating regional vocational education activities through the Northwest Indiana Vocational Education Consortium. The regional plan will replace individual annual applications. Formulation of procedures will result in the Northwest Indiana Work-Education Council's (NIWEC) becoming the general regional advisory committee for vocational education. Other activities are (1) upgrading and completing the Northwest Indiana Guide to Vocational Education to include programs omitted in region 1, (2) completing the pilot survey of employment expectations for nineteen medical and health occupations in northwest Indiana hospitals in collaboration with Indiana Employment Security Division, (3) recording and compiling an inventory of all vocational education equipment and facilities, and (4) identifying and developing resources and activities to expand the promotion of vocational education.

IN8413203.

Regional Planning Study for Vocational Education in Region 12.

Project Director: Boyd, Robert; And Others

Organization: Indiana Vocational-Technical College Region 12, First and Broadway Streets, Madison, IN 47250.

Telephone: (812) 689-5253; (812) 265-2579.

Sponsoring Agency: Indiana State Board of Vocational And Technical Education, Indianapolis.

Contract/Control No.: CN: 27-84-3-2.

Funding Period: Start Date 01 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $84,597.

Descriptors: Coordination. Coordinators. Educational-Cooperation. Regional-Planning. Regional-Programs.

Identifiers: State. Proposal.

The Southeastern Indiana Vocational School, Madison Consolidated Schools, Lawrenceburg Community Schools, and IVTC will explore opportunities for a regional vocational planning system. Representatives of each educational institution in the region will appoint two representatives to a regional planning committee which will convene in a two-day workshop to develop an organizational structure. The organizational structure they develop will include study committees to conduct assessments and employment of a coordinator to facilitate planning operations. Assessments will be made of the status of programming, facilities and their use, support services, employment demand, and public relations. The coordinator then will organize and analyze assessment results and present the findings to the planning committee with recommendations. Next, the planning committee will meet to develop a strategy for regional planning. Finally, the committee will present to the governing body of each participating agency a comprehensive regional planning strategy for approval. The improved communications, coordination, and cooperation should foster improvement in coordination of needs; use of advisory committees; use of facilities, equipment, and staff; public relations; delivery services to region students; and meeting the needs of business and industry.

Curriculum Development (Sec. 133)

IN8413302.

Develop and Implement Performance-based Industrial Training (Training For Profit).

Project Director: Evans, Nancy

Organization: Training Specialists, Inc. 1811 Executive Drive, Suite D, Indianapolis, IN 46241.

Telephone: (317) 224-2424.

Sponsoring Agency: Indiana State Board of Vocational And Technical Education, Indianapolis.

Contract/Control No.: CN: 261-83-3-23.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $464,000.

Descriptors: Catalogs. Competency-Based-Education. Followup-Studies. Instructional-Films. Technical-Assistance.

Identifiers: State. Proposal. Job Training Partnership Act. Vocational-Technical Education Consortium States.

Personnel with background in performance-based vocational education will be employed to provide technical assistance to interested schools and agencies. Technical assistance, follow-up, and fiscal services for Training for Profit (TFP) program implementation will include providing for office facilities, housing vehicles and equipment, developing training manuals and films for TFP companies, and maintaining a record of budget expenditures for each TFP company. Assistance to industry will be provided in articulation with vocational education and Job Training Partnership Act systems. Writing teams will be established to write performance objectives and performance guides for Vocational-Technical Education Consortium of States (V-TECS) catalogs to be produced.

IN8413303.

Work Analysis Specialist.

Project Director: Gordon, Donald

Organization: New Castle Area Vocational School 801 Parkview Drive, New Castle, IN 47362.

Telephone: (317) 529-3503.

Sponsoring Agency: Indiana State Board of Vocational And Technical Education, Indianapolis.

Contract/Control No.: CN: 262-83-3-2.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $46,000.

Descriptors: Competency-Based-Education. Job-Training. Occupational-Information. On-The-Job-Training. School-Business-Relationship.

Identifiers: State. Proposal. *Work Analysis Specialist.

Upgrading will be continued of the skills of the work analysis specialist in the use of Performance Based Industrial Training/Training for Profit (PBIT/TFP) programs and in the delivery of training programs to companies through participation at conferences, conventions, and on-the-job experience. Training program content and outlines will be provided for company accounts activated but not completed during the 1982-83 project and new accounts assigned during the 1983-84 project year. Training priorities will be determined, and the training program will be developed and implemented. The project will demonstrate that training can increase profits and will enhance local and other vocational systems by providing updated information on jobs and developing better contracts with business and industry.

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Kansas

Research (Sec. 131)

KS8413101.

Research Existing Curriculum Materials on Microcomputer Service and Repair and Adapt the Findings for a Kansas Curriculum Model.

Project Director: Hudson, Jesse

Organization: Pittsburg State University Vocational-Technical Education, Pittsburg, KS 66762.

Telephone: (316) 231-7000.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: CN: 84-131-01.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $7,884.

Descriptors: Maintenance. Microcomputers. Models.

Identifiers: State. Proposal.

Ten existing programs will be researched and adapted into a model for microcomputer service and repair for use in Kansas schools. The model will be pilot tested in three schools and refined according to data resulting from the pilot study. Camera-ready copies of the curriculum model will be delivered.

KS8413102.

Develop a Curriculum on Robot Service/Repair and Adapt Findings for a Kansas Curriculum Model.

Project Director: Hudson, Jesse

Organization: Pittsburg State University Vocational-Technical Education, Pittsburg, KS 66762.

Telephone: (316) 231-7000.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: CN: 84-131-02.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $7.279.

Descriptors: Maintenance. Models.

Identifiers: State. Proposal. *Robots.

A curriculum model for robot service/repair will be produced for use in Kansas classrooms. Ten existing robot service/repair programs will be identified and surveyed for curriculum and program content. An advisory committee will assist in the evaluation of project goals, curriculum materials, software, and test sites. A model curriculum will be developed and pilot tested at three sites in Kansas. An inservice seminar will be conducted for test site teachers, and a questionnaire will be developed so that test site personnel may evaluate the materials. Response data gathered at the test sites will be summarized for inclusion in the model. A camera-ready copy of the final curriculum package will be produced for dissemination statewide.

KS8413103.

Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments.

Project Director: Parmley, John

Organization: Kansas State University Adult and Occupational Education, Bluemont Hall, Manhattan, KS 66506.

Telephone: (913) 532-5905.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: CN: 84-131-05.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,379.

Descriptors: Government-School-Relationship. Inservice-Teacher-Education. Networks. Program-Content. Relevance-Education. School-Business-Relationship. Teacher-Effectiveness. Technological-Advancement.

Identifiers: State. Proposal.

Fourteen representatives from business, education, and government will be appointed to a statewide task force whose duty will be to initiate recommendations for teacher inservice training in the vocational service areas. Recommendations will be compiled and submitted to state vocational education department staff. Vocational education teaching specialists and occupational skill area representatives will form a network to ensure teaching competence and program content relevancy in light of technological advancement. A final report will be delivered.

KS8413104.

Kansas Occupational Information System.

Organization: Kansas Occupational Information Coordinating Committee Kansas Department of Human Resources, 401 Topeka, Topeka, KS 66603.

Telephone: (913) 296-5286.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: PN: 84-131-06.

Funding Period: Start Date 15 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Labor-Needs. Employment-Projections. Publications.

Identifiers: State. Proposal.

A statewide occupational supply and demand system will be put into operation and a document listing occupational supply and demand data for Kansas will be published and submitted to the state department of education vocational education staff. Data will be analyzed, and occupational supply and demand data will be projected to 1990. A document of projection figures then will be compiled using 'common data' information for all users. Regional data use meetings will be conducted for agency planners, administrators, and counselors. Finally, the final product will be printed and disseminated.

Exemplary and Innovative (Sec. 132)

KS8413201.

Provide Articulation of the Resources of Secondary School, Area Vocational-Technical School, Community College, Hospital, and Business to Provide Training in High Technology.

Project Director: McCosh, Harlow D.

Organization: Dodge City Community College 2501 North Fourteenth Avenue, Dodge City, KS 67801.

Telephone: (316) 225-1321.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: CN: 84-132-01.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $50,000.

Descriptors: Agency-Cooperation. Program-Development. Retraining.

Identifiers: State. Proposal. *High Technology.

A high technology program that will be articulated through the high school, area vocational-technical schools, community colleges, and the regional hospital will be made available to students in grades 10-14 and to retrainable adults. Project staff will be selected from each institution and will develop criteria for goals, objectives, resources, and program evaluations. Training will be provided in high technology equipment in operation at the hosptial. Training in the following areas will be provided: (1) broad knowledge base, (2) heavy involvement with computers, (3) rapidly changing technical content, (4) basic understanding of high technology equipment (5) systems-oriented emphasis, and (6) employee flexibility. A delivery system for this model program will be developed. A full program design including procedures, curriculum outlines, and evaluation documents for statewide dissemination will be delivered.

KS8413202.

Broad-based Applied Technology Program for Secondary Schools.
Project Director: DeHoff, Colene S.
Organization: Unified School District 464 Box 199, Tonganoxie, KS 66086-0199.
Telephone: (913) 845-2153.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: CN: 84-132-02.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $50,000.
Descriptors: Career-Education. Engineering. Economics. Electrical-Systems. Electromechanical-Technology. Electronics. Engineering. Fluid-Mechanics. Mathematics. Optics. Physics. Productivity. Science-Careers. Verbal-Communication.
Identifiers: State. Proposal.

Secondary students will be prepared for advanced careers in math, science, and engineering and will be given more options among technically oriented careers and professions. Curriculum components will be developed in electronics/electrical devices, electro-mechanical/optics, verbal communications, technical communications, and living in a technical society. Curriculum components will be implemented in fluid/mechanical systems, computer literacy, applied physics, and economics and productivity. Curriculum in cooperative technical education will be field-tested and revised. Staff inservice activities will be provided to help in implementing curriculum. Components developed will serve as a model for statewide dissemination.

KS8413203.
Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
Project Director: Hudson, Jesse
Organization: Pittsburg State University Vocational-Technical Education, Pittsburg, KS 66762.
Telephone: (316) 231-7000.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: CN: 84-132-03.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $25,175.
Descriptors: Basic-Skills. Employment-Opportunities. Field-Tests. Job-Skills. Mathematics. Reading-Skills. Writing-Skills.
Identifiers: State. Proposal.

A model program in basic skills will be field-tested. The program will help vocational teachers in multi-service area programs to improve their students' reading, writing, and math skills; employability skills; and ability to improve job opportunities. The model will be tested at ten sites, and inservice activities will be provided. Test site results will be evaluated and the model program and teacher guides reviewed, rewritten, edited, and reprinted. Regional workshops will be held to maximize feedback. A final report, camera-ready copy of the model, and statistical data of the program will be delivered.

KS8413204.
Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
Project Director: Hudson, Jesse
Organization: Pittsburg State University Vocational-Technical Education, Pittsburg, KS 66762.
Telephone: (316) 231-7000.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: CN: 84-132-04.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $15,743.
Descriptors: Career-Planning. Educational-Opportunities. Grade-9. Grade-10. Occupational-Information. Prevocational-Education.
Identifiers: State. Proposal.

A prevocational curriculum which would supply grade 9 and 10 students with employment information, aid them in making career plans, and stress training opportunities leading to entry-level employment in the careers of their choice will be field-tested at ten sites. Inservice activities and curriculum materials will be provided. The test programs will be evaluated, curriculum reviewed, lesson plans rewritten, and camera-ready copy prepared. Workshops will be held to maximize feedback. The camera-ready program and a final report will be delivered.

KS8413205.
Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair.
Project Director: Holland, Reid
Organization: School of Applied and Continuing Education Washburn University, Seventeenth and College, Topeka, KS 66621.
Telephone: (913) 295-6619.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: PN: 84-132-05.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $50,000.
Descriptors: Articulation-Education. Basic-Skills. Core-Curriculum. Emerging-Occupations. Program-Development. Technology.
Identifiers: State. Proposal. *Computer Repair. *High Technology.

Currently offered courses relating to computer repair technology will be identified, described, and coordinated. Existing and planned curriculum will be organized into levels; basic skills; core technical courses; and specialty high technology courses. A pilot course in computer repair then will be developed, instructed, and evaluated. An articulation model will be produced that delineates the best curriculum path for computer repair. A statewide conference will be conducted for inservice training on the articulated course model. A final report and the model will be delivered.

KS8413206.
Equipment Inventory for Vocational Programs.
Project Director: Mildrexler, Joe
Organization: Colby Community College 1255 South Range, Colby, KS 67701.
Telephone: (913) 462-3984.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: PN: 84-132-06.
Funding Period: Start Date 01 May 84; End Date 30 Jun 84.
Fiscal Year Funding: $4,671.
Descriptors: Computer-Software. Databases. Educational-Equipment. Facility-Inventory.
Identifiers: State. Proposal.

A data base of all equipment used in vocational programs statewide will be developed, then updated to include equipment purchased this fiscal year. Local education agencies will validate individual reports from the previous fiscal year. Revised data then will be entered into the data base by program and by attendance center. Software packages of listings of all equipment being used and data files will be provided to state vocational education staff. Finally, all data will be analyzed.

Curriculum Development (Sec. 133)

KS8413301.
Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials.
Project Director: Slapar, Frank
Organization: Pittsburg State University Kansas Vocational Curriculum Dissemination Center, Pittsburg, KS 66762.
Telephone: (316) 231-7000.
Sponsoring Agency: Kansas State Dept. of Education, Topeka.
Contract/Control No.: CN: 84-133-01.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $46,774.
Descriptors: Curriculum. Delivery-Systems. Information-Networks. Inservice-Teacher-Education. Instructional-Materials. Vocational-Education-Teachers.
Identifiers: State. Proposal. *ERIC. *National Network for Vocational Curriculum Dissemination.

New and current vocational curriculum materials will be disseminated to continue a link between curriculum producers and Kansas students.

Search capabilities will be maintained through Educational Resources Information Center (ERIC) and the National Network for Vocational Curriculum Dissemination. Vocational instructors will be provided with inservice training on the available materials. Individual conferences with schools will be conducted, five statewide display centers will be maintained, and an inventory of new and current competency-based curriculum materials for new and emerging occupations will be maintained. An ongoing evaluation of the center's users will measure the services' effectiveness. A final report will be delivered.

KS8413302.

Kansas Information/Word Processing Curriculum Guide Update.

Project Director: Groneman, Nancy

Organization: Emporia State University 1200 Commercial, Emporia, KS 66801.

Telephone: (316) 343-1200.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: PN: 84-133-02.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $800.

Descriptors: Business-Education. Curriculum-Guides. Information-Processing. Microcomputers. Word-Processing.

Identifiers: State. Proposal.

A revised and expanded Kansas Information/Word Processing Curriculum guide will be developed for classroom use and will include a section on microcomputers in the classroom. Content of the current curriculum guide will be reviewed and expanded or changed as necessary. Current microcomputer usage in Kansas business education classrooms will be identified. A microcomputer curriculum committee will be organized. Content for the microcomputer section of the curriculum guide will be prepared.

KS8413303.

Kansas Competency-based Vocational Education Project—FY 1984.

Project Director: Brooks, Dale E.

Organization: Central Kansas Area Vocational Technical School Box 545, Newton, KS 67114.

Telephone: (316) 283-0930.

Sponsoring Agency: Kansas State Dept. of Education, Topeka.

Contract/Control No.: PN: 84-133-03.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,589.

Descriptors: Competency-Based-Education. Inservice-Teacher-Education. Program-Development. Teacher-Workshops. Teaching-Guides.

Identifiers: State. Proposal.

Learning guides will be designed and made available to Kansas vocational instructors who are interested in starting competency-based programs in specific subject areas. Twenty instructors will enroll in a support course at Wichita State University to learn to write learning guides. Each instructor will complete and validate five learning guides. Workshops on the completed learning guides will be held statewide for persons interested in starting competency-based programs.

Kentucky

Exemplary and Innovative (Sec. 132)

KY8413201.

Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields.

Project Director: Guthrie, Patricia M.

Organization: Kentucky Department of Education 2026 Capital Plaza Tower, Frankfort, KY 40601.

Telephone: (502) 564-3678 or (502) 842-5593.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: X99880063F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,000.

Descriptors: Student-Evaluation. Student-Placement. Testing-Programs. Vocational-Evaluation.

Identifiers: State. Proposal. *High Technology.

Assessment instruments will be identified that can be used to screen/place students who have potential for success in high technology programs. A model system then will be developed to place students in high technology training programs. Two field test sites will be selected to determine the usefulness of the model and whether revisions need to be made. The design of the model system will be presented to the Admissions Committee.

KY8413202.

Career Passport Experience Profile Guide.

Project Director: Murphy, Edward

Organization: Fayette County Public Schools Department of Instruction, 701 East Main Street, Lexington, KY 40502.

Telephone: (606) 259-1411.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $17,600.

Descriptors: Job-Search-Methods. Profiles. Work-Experience.

Identifiers: State. Proposal. *Life Events.

Students will be assisted in developing a Career Passport Experience Profile, which summarizes the youth's life experiences in terms of job-related skills, abilities, and attitudes. This profile will help employers assess the quality and capability of young job applicants. Teachers will guide students (all vocational education students in the county) through the development process, using the Profile Guide workbook, worksheet series for recording information, and Job Hunting Guide. Students will be surveyed by telephone or mail within two months after receiving their profile to determine its value. Also, employers will be contacted to gather similar information. Publicity materials (brochures and audiovisual materials) and 'passport' materials will be made available to other school districts and youth-serving agencies.

KY8413203.

Personal Finances for Adult Students.

Project Director: Kelley, Ruby

Organization: Somerset State Vocational-Technical 14 Airport Road, Somerset, KY 42501.

Telephone: (606) 679-4303.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: P61880013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,000.

Descriptors: Budgets. Computers. Consumer-Economics. Consumer-Education. Family-Life-Education. Pacing. Tutorial-Programs.

Identifiers: State. Proposal.

Adult students enrolled in consumer and family life skills courses will learn effective use of the computer in organizing personal finances. A tutorial program, designed to let students proceed at their own pace, will provide students with accurate information on budgets, wise use of money, insurance, credit, loans, banking, taxes, and investments. Following orientation and presentation of materials, students will practice using the information, using the computer as much as possible. This course will teach students to manage their personal finances and, therefore, function more effectively on their jobs.

KY8413204.

The Fourth Basic: Computer Skills.

Project Director: Towler, Stephen W.

Organization: Hardin County High School 110 South Main Street, Elizabethtown, KY 42701.

Telephone: (502) 765-4186.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: E24880013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Basic-Skills. Business-Education. Computer-Assisted-Instruction. Laboratory-Training. Office-Occupations-Education. Peer-Teaching. Remedial-Instruction. Tutorial-Programs. Typewriting. Volunteers.

Identifiers: State. Proposal.

An experimental computer-assisted, peer/adult, volunteer, tutorial program will be developed to enhance basic skills. Computer-assisted instruction also will be integrated into existing business and office courses. A keyboarding curriculum guide will be developed to interface with the traditional typing 1 course. The computer lab approach, aimed at both remedial and typing students, will include data base, instructional development activities, selection criteria, and inservice training. The tutorial sessions, taught during study hall periods, will consist of a self-paced drill and practice program. The keyboarding/typing interface will involve selection of diskettes, inservice manual, and the field-test process on instruction/curriculum techniques. Program evaluation will be conducted through student pre/post measurements on the keyboarding interface. Tutorial evaluation will be from subtest scores on reading, spelling, language, math, and reference skills. Progress and final reports and materials will be delivered.

KY8413206.

Computer Training for the Adult Community.

Project Director: Randolph, John

Organization: Trigg County Board of Education PO Box 31, Cadiz, KY 42211.

Telephone: (502) 522-6071.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: B84880013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $8,000.

Descriptors: Computer-Literacy. Computers. Job-Skills. Microcomputers. Occupational-Information.

Identifiers: State. Proposal. *Hands On Experience.

Adults will learn entry-level skills as computer operators through a series of two-hour classes on computer literacy. The classes, using hands-on experience on microcomputers and short lecture sessions on computer terminology, will teach keyboarding, inputting of programs, and the running of software. Group discussions on such topics as word and data processing will also be held. The sixteen week series will be offered free to all interested adults and will be held at the local high school. Information concerning job opportunities in data processing and word processing will be presented, and the future of computers will be discussed. Students will be tested on their basic knowledge of computers, programming ability, and typing and writing.

KY8413207.

Career Exploration Software: Developing Practical Arts Experiences.

Project Director: Smith, Kay

Organization: Scott County School District Box 561, Long Lick Pike, Georgetown, KY 40324.

Telephone: (502) 863-3663.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: R84880013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Career-Exploration. Career-Guidance. Computer-Oriented-Programs. Computer-Programs. Employment-Opportunities. Microcomputers. Occupational-Information. Resource-Centers. Resource-Materials.

Identifiers: State. Proposal.

Computer software will be used to provide career exploration experiences to high school students beginning to gain information about careers outside the county and to become comfortable using microcomputers. A resource room will be set up containing Apple computers, video equipment, and reading matter. Career information will be coordinated with General Aptitude Test Battery results of the sophomore year to help steer students in appropriate selections. Evaluation will be conducted through teacher and guidance counselor surveys and through graduate employment surveys.

KY8413208.

Occupational Status as Perceived by Vocational Education Students.

Project Director: Zellick, Linda

Organization: Hopkins County Schools Madisonville, KY 42431.

Telephone: (502) 821-4914.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: PN: B3488001-3F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,900.

Descriptors: Occupations. Prestige. Research-Projects. Student-Attitudes. Vocational-Interests.

Identifiers: State. Proposal.

The change in perceived occupational status that occurs in vocational education students will be assessed in this five-year study. In the first year—devoted to developing, testing, and refining the necessary study mechanisms, a structure will be established and a research design developed to assess the status of selected occupations as perceived by Joint Academic Vocational Activities (JAVA) students, traditional vocational students, and other students. Also, a system will be coordinated for tracking students during the study. In first-year implementation, treatment and control groups will be identified, and their responses to the instrument developed will be interpreted and disseminated. Subsequent years of the study will be planned. First-year results and quarterly and final reports will be delivered.

KY8413209.

Pivot A Lift: PAL.

Project Director: Adams, Lois

Organization: Henry County Middle School, Henry County High School PO Box 267, New Castle, KY 40050.

Telephone: (502) 845-2348.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: F148DE013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $7,600.

Descriptors: Academic-Achievement. Attendance. Daily-Living-Skills. Individualized-Education-Programs. Interpersonal-Competence. Self-Concept. Student-Attitudes. Study-Skills. Work-Experience-Programs.

Identifiers: State. Proposal. *Overage Students.

Eight to ten overage students with poor attendance and achievement ratings will be identified and referred to a program aimed at providing life skills training and improving study skills, self-concept, attitudes, attendance, and social skills. A staff member will identify instructional resources, diagnose learner needs, and serve as liaison with school and community personnel to establish job sites for work experience projects. This person will answer to the building principal regarding court-ordered attendees. Individual program plans will be written for each student. Vocational assessment will determine the job sites needed. Attendance and grade records will be used to evaluate the program.

KY8413210.

Experimental Program in Computer Literacy: Adair County.

Project Director: Durham, Joyce; Grider, Kermit

Organization: Adair County Board of Education, Adair County High School Greensburg Road, Columbia, KY 42728.

Telephone: (502) 384-2751 or (502) 384-2476.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: P04880013F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Computer-Literacy. Computer-Programs. Experimental-Programs. Grade-11. Grade-12. Mathematics-Education.

Identifiers: State. Proposal. *Hands On Experience.

Courses in Introduction to Computers and Computer Math will be offered to Adair County High School juniors and seniors first, then to underclassmen if space allows. Units will be taught using textbooks, transparencies, filmstrips, and cassettes. Students will learn BASIC and will be taught to run and write programs; written tests and hands-on computer assignments will be used for testing. The project will be continually evaluated by educational officials, community leaders, and advisory committee, and parents. Courses in data processing and word processing will be added next year.

KY8413211.

Computer Assisted Instruction in Existing Vocational Programs.

Project Director: Kelly, Rodney

Organization: Bureau of Vocational Education, Secondary Program Management Division 2126 Capital Plaza Tower, Frankfort, KY 40601.

Telephone: (502) 564-3775.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: X99880053F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $27,000.

Descriptors: Agricultural-Education. Computer-Assisted-Instruction. Computer-Programs. Computers.

Identifiers: State. Proposal.

Computer assisted instruction will be initiated at thirteen sites across the state in both secondary and adult vocational agriculture programs. Inservice training will be provided. Hardware and software will be acquired and reviewed and a method developed to use the software. Each site will specialize in a specific, nonduplicating area of agriculture. A meeting will be conducted to summarize findings, experiences, advantages, disadvantages, and recommendations for future implementation of computer-based instruction. A handbook will be delivered that will include information relating to orientation concepts, implementation experiences, and recommendations. It will also contain a bibliography that critiques agricultural software and hardware used in the project.

KY8413212.

Advisory Committees/Councils Effectiveness.

Project Director: Ellis, Jewell Deene

Organization: Kentucky Department of Education Bureau of Vocational Education, Room 2016, Capital Plaza Tower, Frankfort, KY 40601.

Telephone: (502) 564-4286.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $13,000.

Descriptors: Advisory-Committees. Evaluation. Organizational-Effectiveness. Regional-Programs. Technical-Assistance.

Identifiers: State. Proposal.

The effectiveness of advisory committees in three selected vocational regions will be improved, and leadership will be provided at the state level to assist vocational regions in developing functioning advisory committees. In each region, a three-member team will spend one week to ten days analyzing the effectiveness of the regional advisory committee, steering committees, and program committees. Upon completion of the analysis, the team will assist the regional director in developing an improvement plan based upon the team's findings. Visiting teams will use a package of instruments developed around major categories with statements of desirable or effective practices that can be rated on a predetermined scale; survey and interview forms also will be developed. A training session then will be conducted for the three assessment teams. On-site technical assistance will be provided as needed or as improvement plans specify.

KY8413213.
Project: MOD Squad (Dropout Prevention).
Project Director: Sutton, Larry B.
Organization: Pendleton County High School Route 5, Falmouth, KY 41040.
Telephone: (606) 654-3355.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: G848DE013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $900.
Descriptors: Career-Awareness. Dropout-Prevention. Dropout-Programs. Grade-8. Grade-9. Student-Organizations.
Identifiers: State. Proposal. *Life Goals.

A program emphasizing the value of school, career information, and formation of life goals will be developed for students in grades 8 and 9 to prevent school dropout. A skit will be presented about vocational clubs and class opportunities. Bulletin board displays will be put up at middle schools and high schools. A parent orientation meeting will be scheduled, a slide presentation developed, and guest speakers invited. Dropout prevention counseling will be made available. Participants from high school clubs will be surveyed every year, and before and after questionnaires will be given to eighth grade students. The county dropout rate will be compared to the state rate. Publications concerning registration, career and life goals, and counseling will be distributed.

KY8413214.
Vocational Assessment Consortium: Bluegrass Area.
Project Director: Rainey, Barbara
Organization: Scott County Schools Box 561, Georgetown, KY 40324.
Telephone: (502) 863-3663.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: R848HE013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $46,800.
Descriptors: Consortia. Disabilities. Grade-9. Program-Implementation. Vocational-Evaluation.
Identifiers: State. Proposal.

A vocational evaluation screening process for all grade 9 handicapped pupils will be implemented in five school districts. Staff will be hired and trained and equipment and materials purchased. Teachers will be trained to administer the attitude and interest assessments. Quarterly progress reports and a final report on field-testing the extension of these procedures to other school districts will be delivered.

KY8413215.
Vocational Assessment Consortium: Wilderness Trail.
Project Director: Horn, Carol; Johnson, Shannon
Organization: Madison County Schools 707 North Second Street, Richmond, KY 40475.
Telephone: (606) 623-5200.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: T648HE013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $20,000.
Descriptors: Consortia. Disabilities. Grade-9. Vocational-Education.
Identifiers: State. Proposal.

A vocational assessment center for handicapped pupils will be implemented. Materials and equipment recommended for vocational screening assessment will be purchased and teachers trained in the administration of the attitudes and interests assessments. A select group of ninth grade handicapped pupils will be screened to prepare teachers for full implementation of ninth grade handicapped pupil assessment the next year. Quarterly reports and a final report on assessment instruments purchased and procedures implemented for the vocational screening will be delivered.

KY8413216.
Student Organization Responsiveness for Dropout Prevention: Laurel County.
Project Director: Sharp, Diane
Organization: Laurel County High 1705 South Main Street, London, KY 40741.
Telephone: (606) 864-7371.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: N548DE013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $600.
Descriptors: Dropout-Prevention. Dropout-Programs. Junior-High-School-Students. Slides.
Identifiers: State. Proposal. *Health Occupations Students of America.

Health Occupations Students of America (HOSA) members will be responsible for a 'stay-in-school' dropout prevention campaign directed at their peer group. Each high school and vocational organization shall submit slides for a program to be shown to 200 junior high students. HOSA members will contact printers to have slides and booklets made which explain each participating club. Members will edit the slides and write accompanying dialogue. The booklets will be distributed to students viewing the presentation. Attendance will be monitored, and a one-year follow-up will be performed to determine if an increase was present in club memberships. A final report will be delivered.

KY8413217.
Dropout Prevention Program in Russell County.
Project Director: Phelps, Linda
Organization: Russell County Board of Education PO Box 260, Jamestown, KY 42629.
Telephone: (502) 343-3191.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: P748DE013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $9,700.
Descriptors: After-School-Education. Career-Exploration. Dropout-Prevention. Dropout-Programs.
Identifiers: State. Proposal. Hands On Experience. Shadowing.

High preference will be given to eighth and ninth grade students in this project consolidating student services, work experience programs, and vocational education. A preventive approach will be used with students in grades K-7. After-school tutoring by certified teachers will be provided for identified potential dropouts at each of the county's five schools. The multi-faceted academic/career exploration program offered will include career-based, world-of-work oriented instructional activities. These activities will include 1) career research; 2) employability skills; 3) hands-on activities; 4) field trips to practical arts programs, vocational facilities, and community business and industry sites; 5) guest speakers; 6) 'shadowing' experiences; 7) tutorial services; and 8) counseling services.

KY8413218.
Dropout Prevention in Hart County.
Project Director: Strange, Wandel
Organization: Hart County Board of Education Munfordville, KY 42765.
Telephone: (502) 524-2631.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $23,800.

Descriptors: Career-Development. Career-Exploration. Dropout-Prevention. Program-Implementation. Resource-Centers. Work-Experience-Programs.

Identifiers: State. Proposal. *Hands On Experience.

A student centered/community-oriented dropout prevention and career development program with the following components will be implemented: work experience rotation factor and co-op potential; tutorial assistance for work expenses; in-school activities for career exploration and development; counseling services to include assessment, resources, and selection committee; and parent and community involvement to include attitude and employer work experience sites. Experimental trial activities will be developed for implementation of the components to include a control/experiment factor. In addition to the career education class and placing students at work sites, a career resource materials center started earlier will be further developed. Additional equipment will be provided for the Industrial Education Level 2 program to provide hands-on experience. Also, student organization activities will be reviewed, and an increase of those activities will be encouraged. An advisory committee will provide overall guidance and improve the benefits of vocational program craft committees, and dropout rates will be analyzed.

KY8413219.

Vocational Assessment Center for the Handicapped.

Project Director: Nelson, Delores

Organization: Fayette County Public Schools 701 East Main Street, Lexington, KY 40502.

Telephone: (502) 259-1411.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $38,200.

Descriptors: Disabilities. Occupational-Information. Outreach-Programs. Vocational-Evaluation.

Identifiers: State. Proposal.

Procedures developed for the Vocational Assessment of the Handicapped project will be applied to the assessment of all handicapped ninth graders; those procedures also will be applied in training vocational evaluators for the satellite project. Development activities will focus on (1) a system based upon specific job entry requirements and student proficiencies for computer matching of the handicapped to appropriate jobs, (2) a system for transferring job match deficiencies and strengths to an individualized education plan, and (3) a satellite-type approach to assessing handicapped young people from Clark, Scott, Bourbon, and Jessamine County Schools and Paris Independent School District. Consultation service will be provided to the satellite assessment project. Also, funding will be sought to continue the center. Evaluation of strategies developed will be evaluated through feedback from school consultants, teachers, project consultants, students, parents, evaluators, and consortium personnel. This information will be used in making program modifications.

KY8413220.

Academic/Vocational Project: Fairdale High School.

Project Director: Stewart, Loretta

Organization: Jefferson County Public Schools 1001 Fairdale Road, Fairdale, KY 40118.

Telephone: (502) 456-3119.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $105,300.

Descriptors: Basic-Skills. Competency-Based-Education. Curriculum-Development. High-Schools. Technical-Education.

Identifiers: State. Proposal.

A high school curriculum will be developed that integrates the basic skills and vocational-technical education. The competency-based curriculum will begin with Fairdale High School grade 9 students (level 1). The program will be phased in by adding one grade level each year. Orientation for staff and students will be held to explain the project philosophy and curriculum. Inservice training for teachers will be held. Parents, students, and teachers will be surveyed to determine if project goals are reached. Achievement will be compared to a comparable control group of Fairdale students.

KY8413221.

Postsecondary/High Technology: Program and Vocational School Model Development.

Project Director: White, Pat

Organization: Kentucky Department of Education Postsecondary Program Management Division, 2106 Capital Plaza Tower, Frankfort, KY 40601.

Telephone: (502) 564-2326.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $40,900.

Descriptors: Allied-Health-Occupations-Education. Catalogs. Computer-Programs. Delivery-Systems. Minimum-Competencies. Program-Development. Resource-Centers. School-Business-Relationship. Summative-Evaluation.

Identifiers: State. Proposal.

Representatives from business and industry will look at present programs in the health, industrial education, and business and office program areas. They will identify new programs, and assist in identifying academic and technical competencies needed for a person to obtain and be successful on a job. Other community business and industry leaders will recommend changes in the delivery system and program priorities. Bureau, regional, and local administration will develop and recommend a new delivery system model for postsecondary vocational education which will be printed in the form of a student catalog, all or part of which could be implemented in any or all of the state vocational-technical schools. Task forces will meet as often as necessary. Learning center software review will be accomplished through a state-of-the-art review on critiques conducted by other states and institutions and through organization of a review area that will accommodate a microcomputer, printer, and other appropriate hardware needed to review diskette programs. Also, a document will be developed to evaluate software for learning center use. Local teachers and administrators will receive inservice training to implement curriculum changes and the new model.

KY8413222.

Equal Educational Opportunities in Vocational Programs.

Project Director: Kennedy, Albert S.

Organization: Kentucky Department of Education, Division of Equal Educational Opportunities Capital Plaza Tower, Room 2031, Frankfort, KY 40601.

Telephone: (502) 564-6916.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.

Contract/Control No.: CN: X99880023F.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $36,400.

Descriptors: Equal-Education. Sex-Bias. Sex-Discrimination. Sex-Fairness. Sex-Stereotypes.

Identifiers: State. Proposal.

A minigrant program to eliminate sex bias, sex stereotyping, and sex discrimination will be implemented at two area vocational education centers and five local school districts. On-site visits will be made and technical assistance provided to ensure that discrimination is not continued, and state accreditation/program review documents will be reviewed to ensure equal educational opportunities. A minigrant program activities resource file will be developed. An annual report will be written and delivered.

KY8413223.

Dissemination, Utilization, and Program Awareness.

Project Director: Compton, Gene

Organization: Kentucky Department of Education, Office of Research and Planning, Division of Publications Capital Plaza Tower, Frankfort, KY 40601.

Telephone: (502) 564-4394.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: CN: X99880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $29,800.
Descriptors: Newspapers. Program-Descriptions. Publicity. Public-Relations. Radio. Television. Videotape-Recordings.
Identifiers: State. Proposal.

Educators and the general public will be made aware of current Kentucky vocational education programs, developments, and trends through inserts in the department of education's newspaper, television and radio spots, and free-standing video documents. The newspaper insert, 'Tempo,' will be mailed to all vocational employees in Kentucky, state legislators, and congressmen. Twelve television programs, to be broadcast monthly, and six radio programs, to be broadcast every second month, will be produced. Final reports of research/exemplary projects and final products such as handbooks will be printed and made available upon request. These actions will result in program and/or instructional improvement, general public awareness of accomplishments and concerns of vocational education, and student awareness of facilities and programs available to them. Evaluation of program success will be made through informal feedback from educators and the general public.

KY8413224.

Biomedical Equipment Technician Demonstration Program (Madisonville).

Project Director: Logan, Joyce
Organization: Madisonville Health Occupations School 701 Laffoon Street.
Telephone: (502) 821-4380.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: B32880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $95,000.
Descriptors: Biomedical-Equipment. Medical-Laboratory-Assistants. Program-Development. Teaching-Guides.
Identifiers: State. Proposal.

An inservice and preservice training program will be developed to prepare students for national certification and to function in areas such as installation, calibration, inspection, preventive maintenance, and repair of biomedical equipment. Twenty students will be drawn from a statewide service area, and provisions will be made to provide upgraded training or short-term continuing education courses for health care and electronic technical personnel. Project activities will include identifying a program advisory committee, including industry experts; instituting the developmental process for instructional techniques and curriculum materials; surveying the western Kentucky hospitals to help demonstrate labor force needs; and demonstrating program components. An instructional guide on the biomedical equipment technician program will be delivered. Project evaluation will include feedback from medical personnel involved in clinical experiences, placement of at least 85 percent of program completers, and at least 90 percent of employer satisfaction with program completers. A summative evaluation also will be conducted. A final report will be delivered.

KY8413225.

Word and Data Processing Postsecondary Demonstration Program (Harlan).

Project Director: Dixon, Ray
Organization: Harlan State Vocational-Technical School Route 1, Harlan, KY 40831.
Telephone: (606) 573-1506.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: N21880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $31,500.
Descriptors: Data-Processing. Office-Occupations-Education. Teaching-Guides. Technological-Advancement. Word-Processing.
Identifiers: State. Proposal. Related Instruction.

High technology training will be provided in the area of word/data processing to postsecondary students, teachers, administrators, and the business community. The training will be made available as a related course of study for other disciplines such as mining, electronics, and health services; computer literacy will be enhanced on all levels of education. A word/data processing department will be implemented in conjunction with the Business and Office Department to provide in-depth training on electronic equipment. An instructional guide for the word/data processing program will be developed to include an interdisciplinary approach, task lists, instructional techniques, curriculum resources, and other program design elements. Community services for awareness and inservice and upgrading training will be delivered; demonstration site materials also will be provided. The project will be evaluated, and a final report will be delivered.

KY8413226.

Electronics Postsecondary Demonstration Program (Central Kentucky).

Project Director: Morgan, Arthur L.
Organization: Central Kentucky State Vocational-Technical School 100 Vo-Tech Road, Route 8, Lexington, KY 40511.
Telephone: (606) 255-8501.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: V21880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $40,000.
Descriptors: Electronic-Equipment. Electronics. Teaching-Guides.
Identifiers: State. Proposal.

An instructional guide will be designed to serve as a model program, including instructional techniques, curriculum resources, time schedules, task lists, and other program design elements. The comprehensive electronics program will include entry-level competencies through state-of-the-art applications such as microprocessors, robotics, fiber optics, laser, and other advanced or developing technologies. The project directory will coordinate improvement components of the project, including staff development, advanced technologies identification, public relations, and new services. Project staff will host demonstration observations or provide other inservice and preservice training. The project will be evaluated, and a final report will be delivered.

KY8413227.

Computer-aided Drafting (CAD) Postsecondary Demonstration Program (West Kentucky).

Project Director: Taylor, M. W.
Organization: West Kentucky State Vocational-Technical School PO Box 1716, Paducah, KY 42001.
Telephone: (502) 554-4991.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: A91880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $50,000.
Descriptors: Computers. Drafting. Teaching-Guides.
Identifiers: State. Proposal. *Computer Assisted Design.

An instructor's guide to computer-assisted design will be developed to include instructional techniques, curriculum materials, task lists, resources, time schedules, and other program design elements. The program will provide training to students enrolled in drafting or drafting related courses at the vocational-technical school and to area industrial employees in the basics of computer-aided drafting (CAD). Project staff will participate in inservice and staff development activities for CAD use in architectural and mechanical drafting and civil highway technology programs with adaptation of the program at the Milwaukee Area Technical College. The project will be evaluated, and a final report will be delivered.

KY8413228.

Learning Center Demonstration Program for Vocational Education (Daviess County).

Project Director: Gillaspie, Ray
Organization: Daviess County State Vocational-Technical School 1901 Southeastern Parkway, Owensboro, KY 42301.
Telephone: (502) 684-7211.

Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: CO1880013F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Enrichment-Activities. Guides. Learning-Laboratories. Remedial-Instruction.
Identifiers: State. Proposal.

The model learning center program will provide for remedial and enrichment activities in basic mathematics, algebra, geometry, trigonometry, reading comprehension, vocabulary, English, and spelling, including services to disadvantaged and handicapped students. Additional provisions are instruction of employability skills; training for the high school equivalency exam; and alternative learning experiences that are varied, intensive, and individualized for students with low motivation, cultural disadvantages, or learning handicaps. Project staff will research and identify new methods, techniques, and materials for use in the learning center. A variety of innovative materials and techniques, as well as diagnostic testing, will be part of the experimental effort. An operational handbook on the services offered, resources available, management techniques, and other methods and procedures will be delivered. The project will be evaluated, and a final report will be delivered.

KY8413229.
Automotive Education and Certification Program.
Project Director: Shaeffer, Bruce; Baugh, Ron
Organization: Kentucky Bureau of Vocational Education Industrial Education Unit, 2112 Capital Plaza Tower, Frankfort, KY 40601.
Telephone: (502) 564-2326.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: X99880073F.
Funding Period: Start Date 15 Dec 83; End Date 30 Jun 84.
Fiscal Year Funding: $4,540.
Descriptors: Auto-Mechanics. Certification.
Identifiers: State. Proposal.

Instruction for automobile mechanics will be improved so that certification may be obtained for two secondary and two postsecondary programs. The structure and resources of programs will be examined and their strengths and weaknesses identified in relation to nationally accepted standards of quality. Craft committees will be made more active to strengthen industry/vocational education relations. Certification levels will be correlated with planned occupational exit points, and the equipment and facilities plan will be updated. A certification program and procedures guide for the state will be produced. For evaluation, suggestions and comments will be sought from advisory committees, and input will be sought from industry representatives.

KY8413230.
Shawnee-Detrick Academic/Vocational Project.
Project Director: Stewart, Loretta
Organization: Jefferson County Public Schools 4018 West Market Street, Louisville, KY 40212.
Telephone: (502) 456-3119.
Sponsoring Agency: Kentucky State Dept. of Education, Frankfort.
Contract/Control No.: PN: H24-8DE-01-3F.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $59,880.
Descriptors: Acceleration-Education. Basic-Skills. Curriculum-Development. Individualized-Instruction. Program-Implementation. Remedial-Instruction. Technical-Education.
Identifiers: State. Proposal.

A curriculum will be planned and implemented that integrates basic skills and vocational-technical education. This will provide an opportunity for graduating seniors in vocational programs to attain a higher level of skill development by beginning vocational training at the ninth grade. Also, an organization will be established that provides for remediation and acceleration of individual students or small groups of students. Finally, a component to evaluate the effectiveness of the program will be provided.

Louisiana

Research (Sec. 131)

LA8413101.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education.

Project Director: Burnett, Michael F.

Organization: Louisiana State University School of Vocational Education, Baton Rouge, LA 70803.

Telephone: (504) 388-5748.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $14,926.

Descriptors: Agricultural-Education. College-Seniors. Educational-Research. Preservice-Teacher-Education. Program-Content. Student-Attitudes. Teacher-Attitudes. Teacher-Education-Programs. Vocational-Agriculture-Teachers. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Through a survey of vocational agriculture teachers with five years or less of experience and of senior vocational agriculture students, researchers will determine the preferred composition of preservice teacher education. Two closed form, researcher-constructed questionnaires will be used to identify the abilities, skills, competencies, and personality traits that teachers and students perceive they have acquired and those that the groups perceive they should have acquired. The discrepancy between the perceived acquired abilities, skills, competencies, and personality traits and the desired ones then will be determined. Additionally, the teachers' and students' perceptions of major curricular areas in need of improvement will be identified, and their suggestions of types and forms of adjustment needed will be elicited. The final report delivered will be prepared in two forms: a detailed and comprehensive report and a summary of findings. Findings will be disseminated statewide and nationally.

LA8413102.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System.

Project Director: Burnett, Michael F.

Organization: Louisiana State University School of Vocational Education, Baton Rouge, LA 70803.

Telephone: (504) 388-5748.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $19,033.

Descriptors: Computer-Oriented-Programs. Computer-Software. Inservice-Teacher-Education. Needs-Assessment. Program-Content.

Identifiers: State. Proposal.

A computer program for analyzing inservice needs assessment survey results will be developed and implemented. Subject matter and pedagogical areas in which vocational teachers need inservice education will be identified, and the inservice delivery systems most appropriate for meeting those needs will be determined. A statewide steering committee, composed of state department of education personnel and one teacher educator representing each vocational area, will be organized to help identify vocational teachers in the state and help develop the assessment instrument, which will be mailed to the identified teachers. Resulting survey data will be analyzed using the computer program designed. A complete listing of inservice education needs, broken down by vocational program, desired delivery system, types of teachers desiring the education, and parish, will be developed and disseminated to universities, state department personnel, and professional organizations. A final report also will be delivered.

LA8413103.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana.

Project Director: Burnett, Michael F.

Organization: Louisiana State University School of Vocational Education, Baton Rouge, LA 70803.

Telephone: (504) 388-5748.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $7,363.

Descriptors: Allied-Health-Occupations-Education. Improvement-Programs. Instructional-Improvement. Preservice-Teacher-Education. Program-Development. Teacher-Education-Programs. Teacher-Effectiveness. Vocational-Education-Teachers.

Identifiers: State. Proposal.

A graduate student will develop plans and procedures, organizing the most feasible approach for initiating a health occupations program to better prepare teachers. The research report published, including project results, will be distributed to appropriate individuals in the Office of Vocational Education and to selected individuals in secondary and postsecondary schools offering health occupations instructions. The project team and a steering committee will monitor and assess project progress.

LA8413104.

Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101).

Project Director: Daniel, Ellen

Organization: University of Southwestern Louisiana School of Home Economics, Lafayette, LA 70504.

Telephone: (318) 231-6577.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $4,080.

Descriptors: Comparative-Analysis. Educational-Research. Home-Economics-Teachers. Program-Content. School-Activities.

Identifiers: State. Proposal.

To augment the original study, researchers will determine whether or not secondary home economics teachers perceive specified tasks as being taught in secondary programs and as being needed by both male and female homemakers. A questionnaire from the former study will be adapted for the survey and mailed to secondary home economics teachers. Returned questionnaires will be analyzed by frequency distribution. Comparison of the data to student responses from the earlier study will be analyzed by statistical correlation. The written report describing study findings will be sent to the Section Chief of Home Economics and the home economics departments of universities in the state that provide preservice and inservice training. An article describing the project will be submitted to a selected professional journal, and a synopsis of the results will be distributed to Louisiana home economics teachers.

LA8413105.

Needs Assessment for Consumer Education Curriculum Development.

Project Director: Reagan, Shirley P.

Organization: Louisiana Technical University College of Home Economics, Ruston, LA 71272.

Telephone: (318) 257-3727.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $16,143.

Descriptors: Consumer-Education. Consumer-Evaluation. Course-Content. Home-Economics-Teachers. Needs-Assessment. Student-Needs. Teacher-Attitudes.

Identifiers: State. Proposal. *Consumers.

Consumer education content that Louisiana home economics teachers perceive as important and that consumers perceive as important will be identified. Topics that home economics teachers include as part of consumer education content also will be determined. To accomplish this, marketing survey consultants will prepare teacher and consumer questionnaires to identify consumer topics that are relevant to present and future societal trends. One questionnaire will be mailed to teachers, recommended by the Home Economics Section Chief and screened on the basis of their submitted applications, to identify needs of the adolescent learner. Another questionnaire will be mailed to a randomly selected group of consumers to identify consumer needs with regard to consumer education topics. A prioritized list of consumer education topics deemed important in today's society will be prepared from tabulated and summarized results from each questionnaire. Other states' curriculum guides then will be critiqued by home economics teachers using the prioritized lists. The 1976 Louisiana curriculum guide also will be evaluated on the basis of identified needs, materials from other states, and recent changes in consumer education content. Recommendations for future curriculum development then will be made. The final report delivered will include recommendations for future research and suggestions regarding how to use the printed materials published from the study.

LA8413106.

A Study of the Certification Needs and Requirements for Teachers of Vocational-Technical Education Programs in the Secondary and Postsecondary Schools of Louisiana.

Project Director: McMurry, James G.

Organization: Louisana State University Industrial and Technical Education Department, Baton Rouge, LA 70803.

Telephone: (504) 388-2173.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $8,500.

Descriptors: Educational-Research. Standards. Teacher-Certification. Trade-and-Industrial-Teachers.

Identifiers: State. Proposal.

VTIE administrators, teachers, and teacher educators will be surveyed to collect data relevant to Louisiana trade and industrial certification requirements, in order to determine adequacy of the requirements and changes needed and to recommend improvement in the requirements and delivery system. An advisory committee of representatives from affected groups will assist in analyzing the data collected and formulating recommendations. A final report will be delivered, and a summary of findings and recommendations will be distributed to those involved in the study or affected by it.

Exemplary and Innovative (Sec. 132)

LA8413201.

Automated Management and Instructional Support for Special Needs Students.

Project Director: Hammett, Earl L.

Organization: Sowela Technical Institute 3820 Legion Street, Lake Charles, LA 70601.

Telephone: (318) 491-2698.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $17,200.

Descriptors: Computer-Managed-Instruction. Computer-Oriented-Programs. Diagnostic-Teaching. Exceptional-Persons. Improvement-Programs. Program-Implementation. Student-Improvement. Student-Records.

Identifiers: State. Proposal.

Through computer applications, the present rate of successful completions will be increased, and extremely exceptional students will be included in a broadened scope of the present offering. Accountability will be increased through better management procedures, and student costs will be lowered by eliminating some books and materials. To accomplish this, student program entry tests will be scored by computer, and profiles of students' strengths and weaknesses will be printed out. Students will be made aware of weak and strong areas through brief counseling sessions, and the computer will afford individualized prescriptions of assigned remedial exercises. Additionally, a running record of mastery and nonmastery will be available to students, instructors, and parents based on tests at the end of each unit of work and again upon program completion.

LA8413202.

Individualized Instructional Assistance for Disadvantaged Students.

Project Director: Riggs, Daniel B., Jr.

Organization: Baton Rouge Vocational-Technical Institute 3250 North Acadian Thruway, Baton Rouge, LA 70805.

Telephone: (504) 355-5621.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $56,100.

Descriptors: Business-Education. Disadvantaged. Mathematics-Skills. Reading-Skills. Skill-Development.

Identifiers: State. Proposal.

Disadvantaged students enrolled in business education programs will gain functional, job-related reading and computation skills needed to understand job-related materials and to perform occupational tasks as measured by comparison of pre- and posttest data. Word processors with software will be used to upgrade the skills of participants, who will be followed up. The program should lead to successful employment or advancement.

LA8413203.

Licensed Practical Nursing—Training Assistance for Disadvantaged Students.

Project Director: McMichael, James E.

Organization: Northwest Louisiana Vocational-Technical School PO Box 835, Minden, LA 71055.

Telephone: (318) 377-6832.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $28,000.

Descriptors: Disadvantaged. Health-Services. Individualized-Instruction. Knowledge-Level. Practical-Nursing. Program-Implementation. Remedial-Programs. Skill-Development. Student-Motivation.

Identifiers: State. Proposal.

An individualized practical nursing instructional program will be implemented which will provide special help to disadvantaged students in developing the knowledge, skill, and motivation necessary to participate and succeed in health services vocational programs and to work in the health services field. In this supplementary program, identified disadvantaged students will be evaluated with respect to knowledge and skills required for success in the instructional program and on jobs. Individualized remediation programs then will be prescribed for specific identified deficiencies. The individualized, self-paced instruction, using program materials, will include student self-evaluation. This model progam will benefit the many disadvantaged students who enroll in the licensed practical nursing programs of the state's vocational-technical school system.

LA8413204.

Career Awareness Program.

Project Director: Higgins, Susan N.

Organization: Jefferson Parish Schools 519 Huey P. Long Avenue, Gretna, LA 70053.

Telephone: (504) 367-3120.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.

Fiscal Year Funding: $21,000.

Descriptors: Career-Awareness. Cooperative-Programs. Occupational-Information. Program-Development.

Identifiers: State. Proposal.

In collaboration with the Exploring Division of the Boy Scouts, the school system will institute a career awareness program to include career seminars for 4,410 students in seven high schools and four career tours for 200 students in two rural schools. Secondary students will select appropriate secondary and postsecondary courses related to their career interests that will (1) acquaint them with the concept of career clusters and the variety of occupations within a cluster, (2) help them narrow their career choices, (3) acquaint them with the primary requisites for job entry, (4) provide them with an opportunity to speak with professionals in the area of their career choices, and (5) provide opportunity for hands-on experience. Through career interest surveys distributed to all 9th, 10th, and 11th grade students, career counselors will determine the top seven occupational interest areas of their schools. The Boy Scouts will provide three guest speakers for each seminar, arrange one-hour tours to specific business sites, and instruct students desiring more in-depth information on how to enter the Exploring Specialty Posts. The school system will conduct local and state inservice sessions about the program and will help interested nonprofit private schools implement such a program. Evaluation will be conducted with the participating business community, faculty, and students.

LA8413205.

Robotics in Industrial Arts.

Project Director: Oubre, David J.
Organization: Ascension Parish School Board PO Box 189, Donaldsonville, LA 70346.
Telephone: (504) 387-3210.
Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.
Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.
Fiscal Year Funding: $19,000.
Descriptors: Curriculum-Guides. Electronics. Improvement-Programs. Industrial-Arts. Man-Machine-Systems. Robotics.
Identifiers: State. Proposal.

Activities to teach robotics and electronic skills will be introduced to update the basic and advanced industrial arts electronic courses in one school. Students will be exposed to robot fundamentals, AC and fluidic power, DC power and positioning microprocessor fundamentals, introduction to programming, microprocessor controller, data acquisition, data handling and conversion, voice synthesis, and interfacing. This will be achieved by equipping the electronics laboratory with four robots, three microcomputers with dual disk drives, robotic training stations, printers, and necessary software and course materials. Inservice activities in equipment use will be provided for instructors. After the first two years of operation, students will complete program evaluation questionnaires, aimed at eliciting the students' value of the program and recommended changes. The vocational supervisor, school principal, and teachers involved will compile a report for program improvement and expansion to other schools. The final report will include questionnaire results of students and teachers and a curriculum guide for use by future programs.

LA8413206.

Teaching Keyboarding/Typewriting I with Microcomputers and Electric Typewriters.

Project Director: Madden, R. G.
Organization: Bossier Parish School Board PO Box 218, Benton, LA 71006.
Telephone: (318) 965-2281.
Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.
Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.
Fiscal Year Funding: $12,000.
Descriptors: Microcomputers. Skill-Development. Typewriting.
Identifiers: State. Proposal.

The skills of typewriting will be consolidated with the use of similar skills in microcomputer operation, specifically (1) operation of the alphabet keys, (2) touch operation of the ten-key numeric keypad, (3) computer literacy, (4) parts and functions of typewriters and computers, (5) loading and use of software, and (6) input of information. Students will be taught computer literacy and use by the same methods of teaching typewriting and use of the ten-key computer. Rotation of students on the typewriters and computers will be compared in speed, accuracy, and general output. Five sections of typing (125 students), taught in the same room with one network of computers and one of typewriters, will be compared. Curriculum materials developed for the course will be made available to the state department and other instructional units on request.

LA8413207.

Word/Information Processing with Microcomputers in Business Education.

Project Director: Oubre, David J.
Organization: Ascension Parish School Board PO Box 189, Donaldsonville, LA 70346.
Telephone: (514) 387-3210.
Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.
Funding Period: Start Date 20 Dec 83; End Date 20 Dec 84.
Fiscal Year Funding: $26,700.
Descriptors: Courseware. Curriculum-Guides. Educational-Equipment. Microcomputers. Word-Processing.
Identifiers: State. Proposal. Hands On Experience.

A classroom will be equipped with nine microcomputers and necessary printers, memory typewriters, dictation machines, and software and course materials. Instructors will receive inservice training in use of the equipment, and a curriculum guide will be developed for the program that will enable students to define word processing, describe its role in business society, and develop a working knowledge of the word processing cycle. Students will have hands-on learning experiences and will organize and manage a microcomputer work station. The teacher and supervisor will review specific objectives for each unit using a checklist to determine if those objectives will be reached. Records will be kept on all students. At twelve-month intervals after the completion of the course, graduates will be asked to help determine which objectives have been reached and which could be improved upon. Also at the end of the first project year, employers will be asked to help evaluate and make recommendations for the program. Finally, the vocational supervisor, school principal, and teachers involved will compile a report for program improvement and expansion. The final report will contain a curriculum guide for use in future programs.

Curriculum Development (Sec. 133)

LA8413301.

Food Processing Course Outline and Resource Manual.

Project Director: Allen, Larry D.
Organization: Louisiana Tech University PO Box 3187, Tech Station, Ruston, LA 71272.
Telephone: (318) 257-3002.
Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.
Funding Period: Start Date 01 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $7,295.
Descriptors: Course-Descriptions. Curriculum-Guides. Food-Processing-Occupations.
Identifiers: State. Proposal. *Food Preservation.

Information will be obtained through AGRICOLA, cooperative extension services, U. S. Department of Agriculture, and contacts with land grant institutions. The material obtained will be organized and categorized. An advisory committee of three individuals in the food preservation industry will advise a course outline writing team composed of seven teachers actively involved with food preservation centers. Teachers in food preservation centers throughout Louisiana will evaluate the draft and make recommendations for improvement. Needed revisions then will be made. Copies of the curriculum guide will be disseminated to vocational agriculture teachers responsible for food preservation centers, state staff, and public document depositories.

LA8413302.

Model Units for a Semester of Marketing and Distributive Education 1.

Project Director: Boone, Judy
Organization: Department of Business and Distributive Education Natchitoches, LA 71457.

Telephone: (318) 357-5611.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 29 Jan 84; End Date 30 Jun 85.

Fiscal Year Funding: $16,611.

Descriptors: Distributive-Education. Marketing. Material-Development. Units-of-Study.

Identifiers: State. Proposal.

The detailed model instructional units will include orientation to marketing and distributive education (MDE) 1, the distributive process, and advertising. A team of outstanding, selected MDE 1 teacher/coordinators will review and evaluate existing MDE 1 instructional materials, organize and develop the model units, and prepare drafts for field-testing in a variety of geographical settings. Selected field test teacher/coordinators will offer recommendations for revision. The finalized units will be printed and disseminated to all teachers and supervisors of MDE 1 in Louisiana and to public document depositories.

LA8413303.

Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.

Project Director: Eppler, Thomas E.

Organization: Northwestern State University Industrial Education and Technology, Natchitoches, LA 71457.

Telephone: (318) 357-5298.

Sponsoring Agency: Louisiana State Dept. of Education, Baton Rouge.

Funding Period: Start Date 29 Jan 84; End Date 30 Jun 85.

Fiscal Year Funding: $30,047.

Descriptors: Advanced-Courses. Curriculum-Guides. Drafting. Industrial-Arts. Material-Development. Metals. Metal-Working. Woodworking.

Identifiers: State. Proposal.

Three selected writing teams will develop curriculum guides for use in secondary schools. Goals and objectives to be included in each area will be developed, and three-week writing sessions will be conducted. The work of the writing teams then will be compiled and edited. Following review and recommendation by a selected group of industrial arts teachers, the curriculum guides will be revised, printed, and disseminated to all industrial arts teachers in Louisiana and to public documents depositories.

Maryland

Curriculum Development (Sec. 133)

MD8413301.

Maryland Vocational Curriculum Research and Development Center (Continuation).

Project Director: Maley, Donald

Organization: University of Maryland Department of Industrial Technological-Occupational Education, 3216 J. M. Patterson Building, College Park, MD 20742.

Telephone: (301) 454-4264.

Sponsoring Agency: Maryland State Dept. of Education, Baltimore.

Contract/Control No.: CN: 0332.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $230,000.

Descriptors: Catalogs. Curriculum-Study-Centers. Information-Dissemination. Instructional-Materials. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal. Vocational Technical Education Consortium States.

Within the Maryland Vocational Curriculum Management System, the center will provide curriculum development, research, diffusion, and dissemination services, maintaining a resource center for vocational curriculum materials and a loan library accessible to Maryland vocational educators. Library catalogs and brochures will be distributed, and records will be kept of user activity. Additionally, consultation and technical assistance will be provided to vocational education agencies in Maryland. Further, editorial functions will be provided for the writing and printing of four issues of 'Resource Review', which will be distributed through an approved mailing list. Products delivered will include instructional guides in six agricultural production areas and fourteen agricultural mechanics areas; a competency-based curriculum guide in general merchandising; competency-based curriculum in electronics, communication technology, and transportation and energy technology; and Vocational-Technical Education Consortium of States guides in plumbing and industrial electrician. Assistance will be provided in revising Maryland State Competency-based Curriculum Guides that have been field-tested.

Massachusetts

Research (Sec. 131)

MA8413101.
Community College Employer Satisfaction Survey.
Project Director: Carifio, James
Organization: Massachusetts Board of Regents of Higher Education Room 619, McCormack Building, One Ashburton Place Boston, MA 02108.
Telephone: (617) 727-8871.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 431-091-4-3100-7 (01-805).
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $64,159.
Descriptors: Employer-Attitudes. Entry-Workers. Graduate-Surveys. Job-Skills. School-Business-Relationship. Surveys.
Identifiers: State. Proposal.

A one-mailing student follow-up survey of the employment of 1982 community college career program graduates will be conducted, as well as a survey of employer satisfaction with the entry-level job skills of these graduates, using project-designed forms and systems. Reporting software and a production system that meets Vocational Education Data Systems (VEDS) requirements will be designed and developed, as well as associated data analyses. Data sets and software then will be converted into an open book resource. Empirical investigations of nonresponders and other sources of data invalidity will be conducted, and VEDS reports, community college reports, and project reports will be produced. Findings will provide a measure of community college service and performance in meeting the employment needs of students and of the private sector and may also reveal opportunities for improvement in the design and delivery of postsecondary vocational education.

MA8413102.
An Assesement of Vocational Education in Massachusetts.
Project Director: Borden, Robert B.
Organization: Massachusetts Advisory Council on Vocational-Technical Education 294 Washington Street, Suite 353, Boston, MA 02108.
Telephone: (617) 727-4316.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 431-131-4-3438-7(01-805).
Funding Period: Start Date 01 Feb 84; End Date 30 Jun 84.
Fiscal Year Funding: $5,000.
Descriptors: Delivery-Systems. Needs-Assessment. Research-Reports. School-Surveys. State-Programs.
Identifiers: State. Proposal. *Impact Evaluation.

A comprehensive statewide study, based on a survey of the vocational education system (public and private, secondary and postsecondary) and on a needs assessment, will be conducted jointly by the advisory council and the Division of Vocational Education. The delivery system and the contribution it makes to the overall education, employment and training system will be described following a statewide school survey to determine the number and geographical location of schools; student enrollments by grade, sex, and program; and follow-up data on graduates. Current needs also will be identified in the areas of teacher training, curriculum, plant and equipment, vocational guidance, labor market needs and attitudes, special populations, finance, and legislation. A summary and recommendations for changes will be made, and a report will be published on the current status of the system.

Exemplary and Innovative (Sec. 132)

MA8413201.
Jobs for Bay State Graduates (Continuation of MA8313211).
Project Director: Creedon, Lawrence P.
Organization: Quincy Public Schools 70 Coddington Street, Quincy, MA 02169.
Telephone: (617) 471-0100.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: CN: 432-101-4-0243 (01-505).
Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.
Fiscal Year Funding: $6,000.
Descriptors: Career-Counseling. Education-Work-Relationship. Employer-Attitudes. Employment-Potential. Entry-Workers. High-School-Seniors. Job-Placement. Job-Skills. Low-Achievement. Vocational-Followup.
Identifiers: State. Proposal.

In this comprehensive, localized version of a national program to mobilize support from the participating community, employability and skill training programs will be implemented to improve the school-to-work transition of the low quartile high school students in the graduating class, thereby reducing their unemployment. Participants will be provided with employability skills that meet the entry-level requirements of private sector employers. Remedial reading and math instruction will be provided for ten hours weekly for twenty weeks to raise competencies of all students to the sixth grade level. Through a Bay State Career Association chapter to be provided, small groups of students will spend thirty hours a week for forty weeks learning job-seeking skills and appropriate work attitudes and work habits, using activities and conferences emphasizing motivational and leadership development. Finally, job specialists trained in the Jobs for Bay State Graduates program will work eighteen hours a week for fifty-two weeks advising the career association, seeking entry-level jobs in the private sector, establishing a job bank that will identify entry-level positions, and placing students. The specialists will interview prospective employers, visit students' parents, and follow-up placed students.

MA8413202.
Jobs for Bay State Graduates (Continuation of MA8313213).
Project Director: O'Connor, Bart J.
Organization: Attleboro Public Schools Rathburn Willard Drive, Attleboro, MA 02703.
Telephone: (617) 222-0012.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 432-101-4-0016-4 (01-505).
Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.
Fiscal Year Funding: $9,900.
Descriptors: Career-Counseling. Education-Work-Relationship. Employer-Attitudes. Employment-Potential. Entry-Workers. High-School-Seniors. Job-Placement. Job-Skills. Low-Achievement. Vocational-Followup.
Identifiers: State. Proposal.

In this comprehensive, localized version of a national program to mobilize support from the participating community, employability and skill training programs will be implemented to improve the school-to-work transition of the low quartile high school students in the graduating class, thereby reducing their unemployment. Participants will be provided with employability skills that meet the entry-level requirements of private sector employers. Remedial reading and math instruction will be provided for ten hours weekly for twenty weeks to raise competencies of all students to the sixth grade level. Through a Bay State Career Association chapter to be provided, small groups of students will spend thirty hours a week for forty weeks learning job-seeking skills and appropriate work attitudes and work habits, using activities and conferences emphasizing motivational and leadership development. Finally, job specialists trained in the Jobs for Bay State Graduates program will work eighteen hours a week for fifty-two weeks advising the career association, seeking entry-level jobs in the private sector, establishing a job bank that will identify entry-level positions, and placing students. The specialists will interview prospective employers, visit students' parents, and follow-up placed students.

MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313210).

Project Director: Croteau, Gerald A.

Organization: Taunton School System 120 Cohannet Street, Taunton, MA 02780.

Telephone: (617) 823-8181.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 432-101-4-0293-4 (01-505).

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,000.

Descriptors: Career-Counseling. Education-Work-Relationship. Employer-Attitudes. Employment-Potential. Entry-Workers. High-School-Seniors. Job-Placement. Job-Skills. Low-Achievement. Vocational-Followup.

Identifiers: State. Proposal.

In this comprehensive, localized version of a national program to mobilize support from the participating community, employability and skill training programs will be implemented to improve the school-to-work transition of the low quartile high school students in the graduating class, thereby reducing their unemployment. Participants will be provided with employability skills that meet the entry-level requirements of private sector employers. Remedial reading and math instruction will be provided for ten hours weekly for twenty weeks to raise competencies of all students to the sixth grade level. Through a Bay State Career Association chapter to be provided, small groups of students will spend thirty hours a week for forty weeks learning job-seeking skills and appropriate work attitudes and work habits, using activities and conferences emphasizing motivational and leadership development. Finally, job specialists trained in the Jobs for Bay State Graduates program will work eighteen hours a week for fifty-two weeks advising the career association, seeking entry-level jobs in the private sector, establishing a job bank that will identify entry-level positions, and placing students. The specialists will interview prospective employers, visit students' parents, and follow-up placed students.

MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313212).

Project Director: Carnrite, James S.

Organization: Fitchburg Public Schools 1047 Main Street, Fitchburg, MA 01420.

Telephone: (617) 343-6421.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 432-101-4-0097-3 (01-505).

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $9,900.

Descriptors: Career-Counseling. Education-Work-Relationship. Employer-Attitudes. Employment-Potential. Entry-Workers. High-School-Seniors. Job-Placement. Job-Skills. Low-Achievement. Vocational-Followup.

Identifiers: State. Proposal.

In this comprehensive, localized version of a national program to mobilize support from the participating community, employability and skill training programs will be implemented to improve the school-to-work transition of the low quartile high school students in the graduating class, thereby reducing their unemployment. Participants will be provided with employability skills that meet the entry-level requirements of private sector employers. Remedial reading and math instruction will be provided for ten hours weekly for twenty weeks to raise competencies of all students to the sixth grade level. Through a Bay State Career Association chapter to be provided, small groups of students will spend thirty hours a week for forty weeks learning job-seeking skills and appropriate work attitudes and work habits, using activities and conferences emphasizing motivational and leadership development. Finally, job specialists trained in the Jobs for Bay State Graduates program will work eighteen hours a week for fifty-two weeks advising the career association, seeking entry-level jobs in the private sector, establishing a job bank that will identify entry-level positions, and placing students. The specialists will interview prospective employers, visit students' parents, and follow-up placed students.

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MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313209).

Project Director: Durkin, John E.

Organization: Worcester Public Schools 20 Irving Street, Worcester, MA 06109.

Telephone: (617) 799-3135.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 432-101-4-0348-3 (01-505).

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $40,500.

Descriptors: Career-Counseling. Education-Work-Relationship. Employer-Attitudes. Employment-Potential. Entry-Workers. High-School-Seniors. Job-Placement. Job-Skills. Low-Achievement. Vocational-Followup.

Identifiers: State. Proposal.

In this comprehensive, localized version of a national program to mobilize support from the participating community, employability and skill training programs will be implemented to improve the school-to-work transition of the low quartile high school students in the graduating class, thereby reducing their unemployment. Participants will be provided with employability skills that meet the entry-level requirements of private sector employers. Remedial reading and math instruction will be provided for ten hours weekly for twenty weeks to raise competencies of all students to the sixth grade level. Through a Bay State Career Association chapter to be provided, small groups of students will spend thirty hours a week for forty weeks learning job-seeking skills and appropriate work attitudes and work habits, using activities and conferences emphasizing motivational and leadership development. Finally, job specialists trained in the Jobs for Bay State Graduates program will work eighteen hours a week for fifty-two weeks advising the career association, seeking entry-level jobs in the private sector, establishing a job bank that will identify entry-level positions, and placing students. The specialists will interview prospective employers, visit students' parents, and follow-up placed students.

Curriculum Development (Sec. 133)

MA8413301.

Technical Assistance and Staff Support Resources for Competency-based Vocational Education.

Project Director: Batchelor, Laurie J.

Organization: Technical Education Research Center 44 Brattle Street, Cambridge, MA 02138.

Telephone: (617) 547-0430.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-091-4-2709-7 (01-805).

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $30,000.

Descriptors: Competency-Based-Education. Editing. Guides. Instructional-Materials. Material-Development. Services. Technical-Assistance.

Identifiers: State. Proposal.

The assistance and resources will be provided for several instructional materials development activities. Curriculum materials will be edited for four program areas in the competency-based vocational education (CBVE) pilot project 1: electronics technician, machine shop, hotel and lodging, and food management. Also, the CBVE staff training manual will be revised on the basis of workshop evaluation and technical reviews of the field-tested materials. Ten camera-ready copies of the manual will be produced, and 200 copies will be printed at one or more of the CBVE participating schools. Additionally, ten copies of a slide/tape presentation on the development of CBVE in Massachusetts will be produced. These resources will enable schools to conduct inservice staff training using staff already trained in CBVE. The final report delivered will include recommendations for future activities.

MA8413302.

A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management.

Project Director: Hulett, Nancy
Organization: Minuteman Regional Vocational-Technical School District 758 Marett Road, Lexington, MA 02173.
Telephone: (617) 861-6500.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: CN: 433-071-4-0830-7 (01-605).
Funding Period: Start Date 01 Jul 83; End Date 30 Sep 84.
Fiscal Year Funding: $13,000.
Descriptors: Competency-Based-Education. Greenhouses. Job-Analysis. Nursery-Workers-Horticulture. Ornamental-Horticulture. Teaching-Guides.
Identifiers: State. Proposal.

Developing the transportable model in ornamental horticulture will involve (1) project staff participation in statewide inservice training; (2) review, adaptation, and development of the curriculum using existing materials at Minuteman, from other shools, and those available through the Massachusetts Vocational Curriculum Center; (3) pilot testing, revision based on pilot test results, and printing of the curriculum;(4) participation in a dissemination plan; and (5) acting as a demonstration site. The business community will be engaged in participatory planning throughout the project. In developing the curriculum, job descriptions and competency lists will be compiled, then approved by advisory committee representatives. Staff then will rank order the competencies according to job difficulty and will develop a list of performance objectives and standards. Finally, other schools will be assigned responsibility for developing learning guides for each task. A final report will be delivered.

MA8413303.

A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices.

Project Director: Dzerkacz, John F.
Organization: Montachusett Regional Vocational-Technical School 1050 Westminster Street, Fitchburg, MA 01420.
Telephone: (617) 345-7791.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 433-071-4-0832-7 (01-605).
Funding Period: Start Date 01 Jul 83; End Date 30 Sep 84.
Fiscal Year Funding: $15,947.
Descriptors: Competency-Based-Education. Job-Analysis. Machinists. Methods. Shop-Curriculum. Teaching-Guides.
Identifiers: State. Proposal.

Developing the transportable model in machine shop practices will involve (1) staff participation in statewide inservice training; (2) review, adaptation, and development of the curriculum using existing materials at Minuteman, from other schools, and those available through the Massachusetts Vocational Curriculum Center; (3) pilot testing, revision based on pilot test results, and printing of the curriculum; (4) participation in a dissemination plan; and (5) acting as a demonstration site. The business community will be engaged in participatory planning throughout the project. In developing the curriculum job descriptions and competency lists will be compiled, then approved by advisory committee representatives. Staff then will rank order the competencies according to job difficulty and will develop a list of performance objectives and standards. Finally, other schools will be assigned responsibility for developing learning guides for each task.

MA8413304.

A Model Competency-based Vocational Education Curriculum (CBVE) for Child Care Assistant.

Project Director: Anderson, Joan
Organization: Fanning Trade High School 24 Chatham Street, Worcester, MA 01608.
Telephone: (617) 799-1953.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 433-191-3-0408-7 (01-606).
Funding Period: Start Date 09 Aug 83; End Date 30 Sep 83.
Fiscal Year Funding: $13,000.
Descriptors: Child-Caregivers. Competency-Based-Education. Job-Analysis. Teaching-Guides.
Identifiers: State. Proposal.

Developing the transportable model in child care assisting will involve (1) project staff participation in statewide inservice training; (2) review, adaptation, and development of the curriculum using existing materials at Minuteman, from other schools, and those available through the Massachusetts Vocational Curriculum Center; (3) pilot testing, revision based on pilot test results, and printing of the curriculum; (4) participation in a dissemination plan; and (5) acting as a demonstration site. The business community will be engaged in participatory planning throughout the project. In developing the curriculum, job descriptions and competency lists will be compiled, then approved by advisory committee representatives. Staff then will rank order the competencies according to job difficulty and will develop a list of performance objectives and standards. Finally, other schools will be assigned responsibility for developing learning guides for each task. A final report will be delivered.

MA8413305.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.

Project Director: Bergman, Henry
Organization: Shawsheen Valley Regional Vocational-Technical School 100 Cook Street, Billerica, MA 01866.
Telephone: (617) 667-2111.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 433-171-4-0871-7(01-605).
Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.
Fiscal Year Funding: $1,600.
Descriptors: Carpentry. Competency-Based-Education. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.
Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing carpentry curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.

Project Director: Ahern, Barbara
Organization: Shawsheen Valley Regional Vocational-Technical School 100 Cook Street, Billerica, MA 01866.
Telephone: (617) 667-2111.
Sponsoring Agency: Massachusetts State Dept. of Education, Boston.
Contract/Control No.: PN: 433-172-4-0871-7(01-605).
Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.
Fiscal Year Funding: $1,600.
Descriptors: Competency-Based-Education. Evaluation-Methods. Instructional-Materials. Medical-Assistants. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.
Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing medical assistant curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

MA8413307.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.

Project Director: Martin, James F.

Organization: Pathfinder Regional Vocational-Technical School Route 181, Palmer, MA 01069.

Telephone: (413) 283-9701.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-172-4-0860-7(01-605).

Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $16,000.

Descriptors: Auto-Mechanics. Check-Lists. Competency-Based-Education. Entry-Workers. Learning-Modules. Minimum-Competency-Testing. Skill-Development. Task-Analysis.

Identifiers: State. Proposal.

Learning guides will be developed to complete the model CBVE auto mechanics curriculum to prepare entry workers. A task list will be prepared for validation, learning guides and a skills test will be developed for each task, and behavioral objectives will be developed for mastering the required skills. Following curriculum pilot testing and revision, an inservice program will be developed for on-site demonstration.

MA8413308.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.

Project Director: Butler, Robert

Organization: Worcester Trade Complex Fanning Trade School, 24 Chatham Street, Worcester, MA 01609.

Telephone: (617) 799-1956.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0408-7(01-606).

Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Competency-Based-Education. Evaluation-Methods. Instructional-Materials. Medical-Assistants. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing medical assistant curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

MA8413309.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.

Project Director: Martin, James F.

Organization: Pathfinder Regional Vocational-Technical High School Route 181, Palmer, MA 01609.

Telephone: (413) 283-9701.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0860-7(01-605).

Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Competency-Based-Education. Drafting. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing drafting curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

MA8413310.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.

Project Director: Caradonio, James

Organization: Humphrey Occupational Resource Center 75 New Dudley Street, Boston, MA 02119.

Telephone: (617) 442-5200.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0035-7(02-695).

Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Competency-Based-Education. Electronics. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing electronics curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

MA8413311.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.

Project Director: Larivee, Ray

Organization: Cape Cod Regional Technical High School Pleasant Lake Avenue, Harwich, MA 02645.

Telephone: (617) 432-4500.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0815-7(01-605).

Funding Period: Start Date 01 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $6,500.

Descriptors: Auto-Mechanics. Check-Lists. Competency-Based-Education. Entry-Workers. Learning-Modules. Minimum-Competency-Testing. Skill-Development. Task-Analysis.

Identifiers: State. Proposal.

Learning guides will be developed to complete the model CBVE auto mechanics curriculum to prepare entry workers. A task list will be prepared for validation, learning guides and a skills test will be developed for each task, and behavioral objectives will be developed for mastering the required skills. Following curriculum pilot testing and revision, an inservice program will be developed for on-site demonstration.

MA8413312.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.

Project Director: Prioli, Joseph M.

Organization: Brockton High School 43 Crescent Street, Brockton, MA 02401.

Telephone: (617) 580-7665.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-181-4-0044-7(01-505).

Funding Period: Start Date 27 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Business-Administration. Competency-Based-Education. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Small-Businesses. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing small business management curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delivered, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final tape will be delivered.

MA8413313.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.

Project Director: Valeri, Charles.

Organization: Nashoba Valley Technical High School Littleton Road, Westfield, MA 01886.

Telephone: (617) 692-4711.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-181-4-0852-7(01-605).

Funding Period: Start Date 27 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Business-Administration. Competency-Based-Education. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Small-Businesses. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing small business management curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delivered, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final tape will be delivered.

MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.

Project Director: Smith, Don.

Organization: Montachusett Regional Vocational-Technical School 1050 Westminster Street, Fitchburg, MA 01420.

Telephone: (617) 345-7791.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-181-4-0832-7(01-605).

Funding Period: Start Date 27 Jun 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Competency-Based-Education. Drafting. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing drafting curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delivered, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final tape will be delivered.

MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.

Project Director: Caradonio, James A.

Organization: Humphrey Occupational Resource Center Boston Public Schools, 75 New Dudley Street, Boston, MA 02119.

Telephone: (617) 442-5200.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0035-7(01-695).

Funding Period: Start Date 01 Jul 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Auto-Body-Repairers. Competency-Based-Education. Evaluation-Methods. Instructional-Materials. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing auto body repairer curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delivered, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final tape will be delivered.

MA8413316.

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE).

Project Director: Herbert, Sheila A.

Organization: Greater Lowell Regional Vocational-Technical School Pawtucket Boulevard, Tyngsboro, MA 01879.

Telephone: (617) 454-5411.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-141-4-0828-7(01-605).

Funding Period: Start Date 01 Mar 84; End Date 30 Sep 84.

Fiscal Year Funding: $55,987.

Descriptors: Competency-Based-Education. Coordination. Curriculum-Faculty-Development. Inservice-Teacher-Education. Technical-Assistance.

Identifiers: State. Proposal.

Coordination will be provided for the development and execution of staff training for curriculum development, revision and expansion of the CBVE staff training manual to include supplemental resource lists, and development and implementation of a dissemination program. Formative and summative evaluation instruments will be developed for the training program. Technical assistance will be provided for preparation of an audiovisual presentation of the Massachusetts model of CBVE curriculum development. Also, final editing will be conducted on all remaining CBVE curricula, and a training workshop on pilot testing of the curricula will be conducted. Two hundred copies of the model CBVE curriculum in each program area will be printed for staff training; multiple copies of the staff training manual also will be printed.

MA8413317.

Competency-based Vocational Education Curriculum—Metal Fabrication.

Project Director: Picard, Eugene

Organization: Blackstone Valley Regional Vocational-Technical School Pleasant Street, Upton, MA 01568.

Telephone: (617) 529-7771.

Sponsoring Agency: Massachusetts State Dept. of Education, Boston.

Contract/Control No.: PN: 433-171-4-0805-7(01-605).

Funding Period: Start Date 01 Jul 84; End Date 30 Sep 84.

Fiscal Year Funding: $1,600.

Descriptors: Competency-Based-Education. Evaluation-Methods. Instructional-Materials. Metal-Working. School-Business-Relationship. School-Funds. Staff-Development. Technical-Assistance.

Identifiers: State. Proposal.

Technical assistance and resources will be provided for (1) training two vocational instructors in CBVE curriculum development; (2) developing techniques to evaluate, adapt, or adopt existing CBVE curriculum materials; (3) developing techniques for establishing collaborative linkages with business and industry to ensure program relevance; and (4) developing metal fabrication curriculum based on the state development model. Job descriptions, a preliminary list of competencies, and a task list will be delineated, and a list of performance objectives and standards will be developed. Advisors will validate the performance objectives. Completed learning guides will be pilot tested, revised based on test results, then implemented at Shawsheen Valley, which will serve as a demonstration site. Future curriculum development efforts will be encouraged through dissemination of successful methods, techniques, and materials by trained teachers within their own schools. A final report will be delivered.

Michigan

Curriculum Development (Sec. 133)

MI8413301.
New Local Program Curriculum Development.
Project Director: Folkening, James
Organization: Michigan Department of Education Community College Unit, Higher Education Management Services, PO Box 30008, Lansing, MI 48909.
Telephone: (517) 373-3360.
Sponsoring Agency: Michigan State Dept. of Education, Lansing.
Contract/Control No.: GN: 3200 (Annual Fiscal); 00041 (Permanent).
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $210,000.
Descriptors: Community-Colleges. Curriculum. Grants. Labor-Needs. Needs-Assessment.
Identifiers: State. Proposal.

Matching grants will be awarded to community colleges to perform needs assessments of manpower demand and student interest in specific occupational programs or program areas currently without institutional programs and to develop curricula based upon the findings of the needs assessments. Specific criteria for community colleges to meet in order to obtain state board approval for reimbursable occupational programs are contained in Michigan's annual and long range state plan for vocational education.

MI8413302.
Program Development and Dissemination.
Project Director: Olson, Chris; Kielbaso, Gloria
Organization: Michigan State University 100 Wills House, East Lansing, MI 48824.
Telephone: (517) 353-0061.
Sponsoring Agency: Michigan State Dept. of Education, Lansing.
Contract/Control No.: GN: 0003 (Permanent); 8008 (Annual).
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $504,662.
Descriptors: Administrator-Guides. Computer-Orienter-Programs. Curriculum. Curriculum-Guides. Job-Analysis. Resource-Centers. Systems-Development.
Identifiers: State. Proposal.

An analysis center will be maintained to search for, screen, and house vocational-technical education materials and human resources. A curriculum resource team and the curriculum resource center will develop, disseminate, and house for distribution curriculum and other professional materials upon recommendation of state staff and other interested persons. Sex equity support materials will be developed or purchased and distributed to local education agencies, and the required curriculum prioritization analyses will be conducted. Task lists from incumbent workers will be used as a basis to develop, validate, and compile curriculum guides for distributive education, child care, food service, health occupations cluster, and data processing; curriculum materials also will be adapted from other sources. Educational experts in the occupational areas represented will edit and expand them into finished curriculum guides, which will be field-tested and disseminated to selected target audiences via regional workshops. Also, program review and plannning documents will be produced to help local program administrators improve programs through assessment of existing programs. Finally, a computer-based task analysis system will be developed.

Minnesota

Research (Sec. 131)

MN8413101.

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.

Project Director: Smith, Brandon B.

Organization: University of Minnesota Vocational and Technical Building, St. Paul Campus, 1954 Buford Avenue, St. Paul, MN 55108.

Telephone: (612) 373-3838.

Sponsoring Agency: Minnesota State Dept. of Education, St. Paul.

Contract/Control No.: CN: 01-R-84.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $155,000.

Descriptors: Education-Service-Centers. Research-Projects. School-Districts. Social-Influences. Staff-Development. State-Agencies. Technical-Assistance.

Identifiers: State. Proposal. *Special Needs Students.

The Minnesota Research and Development Center for Vocational Education will, in 1984, stimulate research and development activities in the state, disseminate research results, provide research training to graduate students, and conduct research on high priority activities. Meetings, surveys, and demonstration projects will be conducted, and technical assistance will be provided to state and local educational agencies. Seven reports, on such subjects as special needs learners, staff development, social and educational indicators, people needs and characteristics, and the role of vocational education, will be developed, printed, and disseminated.

MN8413102.

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.

Project Director: Smith, Brandon B.

Organization: University of Minnesota 1954 Buford Avenue, St. Paul, MN 55108.

Telephone: (612) 373-3838.

Sponsoring Agency: Minnesota State Dept. of Education, St. Paul.

Contract/Control No.: CN: 00270.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $155,000.

Descriptors: Delivery-Systems. Information-Dissemination. Information-Services. Program-Implementation. Research-and-Development. Research-and-Development-Centers. Technical-Assistance.

Identifiers: State. Proposal.

The Minnesota Research and Development Center for Vocational Education will accomplish the following objectives: (1) encourage research and development efforts of individuals and groups, (2) conduct training activities for producers and consumers of vocational education research-related activities, and (3) disseminate information to assist others and to speed the implementation of worthy education innovation. These objectives will be carried out through technical consultation, dissemination of reports, literature reviews and syntheses, journal articles, doctoral dissertations, field tests and surveys of vocational educators, research and development activities, advisory committee meetings, and teacher education classes and workshops. Interim and final reports will be disseminated at conferences, seminars, workshops, and classes taught by the investigators.

Mississippi

Research (Sec. 131)

MS8413101.

The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.

Project Director: Thomas, Edward L.

Organization: Research and Curriculum Unit Drawer DX, Mississippi State, MS 39762.

Telephone: (601) 325-2510.

Sponsoring Agency: Mississippi State Dept. of Education, Jackson.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,000.

Descriptors: Demography. Geographic-Location. Geographic-Regions. Migration. Social-Change. Social-Influences. Student-Mobility.

Identifiers: State. Proposal.

Postsecondary vocational-technical students within designated geographical areas of the state will be studied to determine the students' level of mobility, the degree of social change needed to be successful, and what factors will influence mobility. Results will be compared with findings from 1973. The project will be reviewed, monitored, and evaluated for cost effectiveness, quality, and transportability. Findings will be forwarded to participating postsecondary institutions.

Missouri

Research (Sec. 131)

MO8413101.

A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting.

Project Director: Young, Amy

Organization: Maple Woods Community College 2601 Northeast Barry Road, Kansas City, MO 64156.

Telephone: (816) 436-6500.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (161-162) (B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Allied-Health-Occupations. Competency-Based-Education. Job-Analysis. Job-Skills.

Identifiers: State. Proposal. *Patient Advocate.

Competencies performed by the patient advocate/representative in a health care setting will be identified. A committee will develop competency lists, review the lists, recommend curriculum for a patient advocate program, and write a final report. The final report will include a list of competencies for the patient advocate.

MO8413102.

Getting to the Public for a Hearing.

Project Director: Kutscher, Gordon

Organization: Missouri Advisory Council on Vocational Education PO Box 545, Jefferson City, MO 65102.

Telephone: (314) 751-4384.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (65102).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Community. Community-Surveys. Computer-Oriented-Programs. Interviews. School-Community-Relationship.

Identifiers: State. Proposal. *Impact Evaluation. *Distributive Education Clubs of America.

The general public will be surveyed to determine the awareness and impact of vocational education in Missouri. A survey instrument will be designed, written, revised, and distributed to DECA (Distributive Education Clubs of America) advisers. Interview teams will be trained and will conduct the interviews. Data will be compiled, entered into a computer, and analyzed. Results will be included in the final report.

MO8413103.

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology.

Project Director: Means, J. W., Sr.

Organization: Columbia Area Career Center 4203 South Providence Road, Columbia, MO 65201.

Telephone: (314) 449-2693.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2(010-093).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Computers. Course-Descriptions. Electronic-Technicians. Job-Skills. Learning-Strategies. Technological-Advancement. Technology.

Identifiers: State. Proposal.

The current course of study will be reviewed by the electronics program advisory committee so that an outline for a course of study using a systems approach to training students in computers technology can be developed. Knowledge and skills needed by an electronics technician will be identified as components of a electronics training program. To provide study and production of functioning electronic systems, sample comprehensive class and lab activities will be developed, such as hands-on lab projects, classroom self-teaching modules, and computer-assisted instruction. Learning activities will be sequenced to introduce new knowledge and skills at a reasonable learning rate, ensuring an acceptable level of competence and adequate review throughout the training period. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413104.

A Shop Management System for Auto Body Programs.

Project Director: Meler, Jim

Organization: Boonslick Area Vocational-Technical School Boonville, MO 65233.

Telephone: (816) 882-5306.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (027-061) (B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Auto-Body-Repairers. Business-Administration. Shop-Curriculum. Small-Businesses. Units-of-Study.

Identifiers: State. Proposal.

A unit of instruction on shop management for secondary auto body programs will be developed. An outline that explains step by step how shop management instruction could be incorporated into an auto body program will be designed. A grading system will be developed that translates pay to a numerical grade. A computer program will also be written. Quarterly and final reports will be delivered.

MO8413105.

Competency-based Instruction for the Modern Office/Word Processing Technology.

Project Director: Levan, J.; West, S.

Organization: Platte County Area Vocational-Technical School Box 889, Platte City, MO 64079.

Telephone: (816) 464-5505.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2(083-003)(A).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Business-Education. Competency-Based-Education. Data-Processing. Office-Occupations-Education. Skill-Development. Word-Processing.

Identifiers: State. Proposal.

Competency-based instruction will be designed for the modern office/word processing technology course. Testing procedures will be developed to measure the skill levels of students entering the information processing center for advanced instruction and work experience, as well as to determine the students' ability to meet prerequisites for designated certificate levels. Competency levels and skill necessary for positions in the information processing center will be established for the following: supervisor, lead information processing specialist, information processing/data entry specialist, proofreader, and receptionist/office clerk. Projects will be planned to help students select career goals and determine the feasibility of these goals in relation to their ability and skill level. In addition, projects will be planned to train students in the basic competencies involved in a business course. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413106.

Integration of an Information Processing Center into a Modern/Office Word Processing Technology Course.

Project Director: West, S.; LeVan, J.

Organization: Platte County Area Vocational-Technical School Box 889, Platte City, MO 64079.

Telephone: (816) 464-5505.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (083-003) (B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Information-Processing. Office-Occupations-Education. Word-Processing.

Identifiers: State. Proposal.

An information processing center will be established and integrated into the modern office/word processing technology course. Job descriptions will be developed for the positions of supervisors, senior specialist, specialist, proofreader, and receptionist/clerk for the model center. Equipment needed, guidelines for workflow, and controls and procedural manuals will be provided. Job position rotation schedules and standardized formats will be established. Guidance will be provided for dealing with stress and human relations. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413107.

Incorporating Microcomputers into Secretarial and Clerical Vocational Programs.

Project Director: Buck, Judy; Jackson, Gloria

Organization: Sikeston Area Vocational School Business Education Department, 200 Pine, Sikeston, MO 63801.

Telephone: (314) 471-5440.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (100-063).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Clerical-Occupations. Computer-Assisted-Instruction. Microcomputers. Office-Occupations-Education. Program-Development.

Identifiers: State. Proposal.

The current secretarial and clerical curriculum will be analyzed and restructured to include specific objectives for additional units. The three most feasible areas for use on the microcomputer will then be determined; programs for these areas will be developed. A summary of the three programs and written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413108.

From Issues to Action: Vocational Home Economics in Missouri.

Project Director: Kellett, Carol E.

Organization: Central Missouri State University 231 Grinstead Hall, Home Economics Department, Warrensburg, MO 64093.

Telephone: (816) 429-4362.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (121-121).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,451.

Descriptors: Information-Dissemination. Occupational-Home-Economics. Publicity.

Identifiers: State. Proposal.

A slide-tape series will be developed to help convey and document the accomplishments of vocational home economics education to a variety of audiences. Specific courses, programs, and facilities to be represented will be identified; production activities will include photography, graphics, and script. The slide/tape program will be field-tested by presentation to an advisory council. Two sets of the completed slide/tape program and written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413109.

Development of a Model Role for the Area Vocational-Technical School Counselor.

Project Director: Jones, Carol

Organization: Northeast Missouri State University Kirksville, MO 63501.

Telephone: (816) 785-4395.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (122-122).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Counselor-Role. Role-Models. School-Counselors.

Identifiers: State. Proposal.

A model will be established to include a list of the roles and functions of the vocational-technical school counselor. The superintendent, principals, area vocational-technical directors, and the area vocational-technical school counselors will be interviewed in eight area vocational-technical schools. This data will be compiled and a follow-up visit with the administrators of the eight area schools will be conducted. Administrators and counselors then will be asked to provide input regarding the information obtained from the initial interviews in order to formulate a role model for counselors. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413110.

Discussion Time: A Developmental Project to Facilitate the Socialization of Associate Degree Nursing Students.

Project Director: Steinhoff, Mary E.

Organization: East Central College PO Box 529, Union, MO 63084.

Telephone: (314) 583-5999.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (130-130) (A).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $930.

Descriptors: Discussion-Groups. Practical-Nursing. Socialization.

Identifiers: State. Proposal.

A curriculum and planned activities will be developed to provide discussion time to help associate degree nurses adjust better to the socialization process. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413111.

Phase 1 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.

Project Director: Henson, Linda

Organization: Jefferson College Hillsboro, MO 63050.

Telephone: (314) 789-3951.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (145-145) (A).

Funding Period: Start Date 01 Jul 83; End Date 31 Dec 83.

Fiscal Year Funding: $1,500.

Descriptors: Feasibility-Studies. Office-Occupations-Education. Telecommunications.

Identifiers: State. Proposal.

A feasibility study will be conducted to provide information which will serve as guidelines for implementing telecommunications into the office technology curriculum. A literature review will be conducted, and area companies using telecommunications will be identified. Skills needed by students seeking employment with these companies will be determined. An equipment, space, and curriculum needs inventory for implementing telecommunications will be prepared. The preliminary curriculum for telecommunications will be established. A summary of phase 1 of the feasibility study and written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413112.

Curriculum Planning for Oral and Maxillofacial Surgery Assistant Program.

Project Director: Taylor, Mary Ann

Organization: St. Louis Community College at Forest Park 5600 Oakland Avenue, St. Louis, MO 63110.

Telephone: (314) 644-9330.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (145-150) (B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,480.

Descriptors: Dental-Assistants. Dentistry. Program-Development. Surgical-Technicians.

Identifiers: State. Proposal. Oral Surgery Assistants.

A formal educational program will be developed in oral and maxillofacial surgery assisting based on curriculum guidelines of the American Association of Oral and Maxillofacial Surgery. Project activities will include the following: (1) researching specific duties delegated to an oral surgery assistant and compiling task analysis; (2) exploring current trends, procedures, and techniques in the field; (3) contacting community resources to devise and coordinate occupational training experiences in hospitals, dental offices, and clinics; and (4) researching, developing, and organizing instructional and audiovisual materials. The information will be correlated. The curriculum and written quarterly reports will be delivered. The final report developed will be reviewed to determine if project objectives were accomplished or addressed.

MO8413113.

Microcomputer-based Instruction for Digital Electronics.

Project Director: Murphy, Mark

Organization: Mexico Area Vocational-Technical School 905 North Wade, Mexico, MO 65265.

Telephone: (314) 581-5684.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (004-110) (A).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,000.

Descriptors: Computer-Assisted-Instruction. Digital-Computers. Learning-Modules. Material-Development. Microcomputers.

Identifiers: State. Proposal.

A microcomputer-based instructional module for digital electronics will be developed, and a program listing will be included with program documentation. The module will address functions and operations of digital electronics, including shift register and other circuits, basic microprocessor interfacing procedures, and using pneumonics in immediate and direct address modes. The computer module and written quarterly reports will be delivered.

MO8413114.

Integrating Hydraulics Curriculum into Two-year Machine Shop Program.

Project Director: Price, Don R.

Organization: Mexico Area Vocational-Technical School 905 North Wade, Mexico, MO 65265.

Telephone: (314) 581-5684.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (004-110) (B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,000.

Descriptors: Hydraulics. Material-Development. Learning-Modules. Scientific-Principles. School-Shops.

Identifiers: State. Proposal.

Thirteen curriculum modules introducing hydraulics principles will be developed and integrated into the existing two-year machine shop program. Student activities will be developed relating hydraulics principles to industry, machine shop, and manufacturing processes. Videotapes and student workbooks, along with a hydraulics trainer, will be used as a basis for the modules. The modules and written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished or addressed.

MO8413115.

Introduction to Robotics Curriculum.

Project Director: Price, Don R.

Organization: Mexico Area Vocational-Technical School 905 North Wade, Mexico, MO 65265.

Telephone: (314) 581-5684.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 83-131/132-600-2(004-110)(C).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,000.

Descriptors: Course-Descriptions. Introductory-Courses. Robotics. Team-Teaching. Technology.

Identifiers: State. Proposal.

A four-part introductory robotics curriculum will be developed, along with a curriculum outline and a flexible schedule. The curriculum will be taught by a team of instructors in the electronics, drafting, machine shop, and welding programs and implemented in a variety of trade and technical program combinations. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413116.

Competency-based Welding Processes Videotapes.

Project Director: Cochran, Steven

Organization: Mexico Area Vocational-Technical School 905 North Wade, Mexico, MO 65265.

Telephone: (314) 581-5684.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2(004-110)(D).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,000.

Descriptors: Competency-Based-Education. Material-Development. Videotape-Recordings. Welding.

Identifiers: State. Proposal.

Videotapes of a competent welder performing selected tasks will be produced. At intervals of five hours of filming, evaluation will be conducted by welding instructors within the state. The videotapes then will be improved or modified as needed. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413117.

Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.

Project Director: Peck, Greg

Organization: Mexico Area Vocational-Technical School 905 North Wade, Mexico, MO 65265.

Telephone: (314) 581-5684.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2(004-110)(E).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,000.

Descriptors: Competency-Based-Education. Drafting. Learning-Strategies. Material-Development. Microcomputers.

Identifiers: State. Proposal. *Computer Assisted Drafting.

A competency-based curriculum for computer-aided drafting (CAD) will be established in vocational drafting classes using one of the micro-CAD systems such as CAD-APPLE or MATC MICRO-CAD. Competencies will be established with the assistance of industry CAD users and institutions of higher learning that train CAD operators. Activities and instructional materials will be developed to meet these competencies. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413118.

A Study of the Congruency between the Interests and Concerns of Student Participants and the Goals, Objectives, and Activities of Vocational Student Organizations.

Project Director: Smith, Clifton; Stewart, Bob

Organization: University of Missouri—Columbia Room 202, Industrial Education Building, Columbia MO 65211; Room 435, General Classroom Building, Columbia, MO 65211.

Telephone: (314) 882-6058; (314) 882-7451.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: D84-131-600-7(116-116).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $500.

Descriptors: Information-Dissemination. Student-Organizations.

Identifiers: State. Proposal.

For each vocational student organization, a three-page article will be developed to summarize data generated under the study. Strategies will be included for alleviating areas of incongruencies. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413119.

Dissemination of 82-131-600-10(116-116)(B) Admissions Criteria.

Project Director: Schlichting, Harley

Organization: University of Missouri—Columbia 10 Industrial Education Building, Columbia, MO 65211.

Telephone: (314) 882-2883.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: D84-131-600-10(116-116)(B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,308.

Descriptors: Admission-Criteria. Information-Dissemination.

Identifiers: State. Proposal.

Two thousand copies of the nondiscriminatory admission criteria for vocational-technical education will be prepared for use by local education agencies. Major components are admission policy, general and program admission criteria, use of general and supplemental tests in admission, and the admission process. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413120.

Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers.

Project Director: Hubbs, Marguerite

Organization: University of Missouri—Columbia 405 General Classroom Building, Columbia, MO 65211.

Telephone: (314) 882-2883.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: D84-131/132-600-1(116-116).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $243.

Descriptors: Electronic-Equipment. Entry-Workers. Information-Dissemination. Job-Skills. Manufacturing.

Identifiers: State. Proposal.

A brochure will be developed and printed with cogent information and data resulting from the project's study period. Information will be included on training needs perceived by Missouri manufacturers of electrical and electronic equipment and instruments, existing entry-level skills training, and the extent of the manufacturers' training efforts. The brochure will be mailed to respondents requesting the information and to other selected vocational educators. Written quarterly reports will be delivered. The final report will be reviewed to determine if project objectives were accomplished.

MO8413121.

The Role of Vocational Education in Productivity—Phase 1.

Project Director: Harrison, Lindell

Organization: State Fair Community College 1900 Clarendon Road, Sedalia, MO 65301-6799.

Telephone: (816) 826-7100.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-1(126-126)(A).

Funding Period: Start Date 01 Jul 83; End Date 31 Dec 83.

Fiscal Year Funding: $17,044.

Descriptors: Business. Delivery-Systems. Feasibility-Studies. Industry. Needs-Assessment. Productivity. School-Role.

Identifiers: State. Proposal.

A feasibility study will be conducted to determine the need for the establishment of a program to aid local businesses and industries in awareness, assessment, and improvement of productivity. Chief executive officers of ten to fifteen selected area businesses and industries will be invited to an informational meeting; those expressing interest will form a steering/advisory group to approve and/or direct project activities. The committee will review a productivity planning profile and revise as necessary. At least five businesses or industries will agree to work with the project coordinator to complete the profile. Results will be analyzed, and areas of common interest or need will be determined and reviewed with the participating businesses and industries. In addition, project staff will review and consider commercially available productivity material, review other productivity delivery models, schedule on-site visits as appropriate, review staff development training programs available, and schedule attendance for the project coordinator as appropriate. A program will be designed to address common areas of interest and/or need and individual needs as appropriate. The program will be reviewed and approved by the steering committee. Quarterly reports and a final report will be delivered.

MO8413122.

A Study of Articulation in Missouri Vocational Technical Programs.

Project Director: Harrison, L.; King, B.

Organization: State Fair Community College 1900 Clarendon Road, Sedalia, MO 65301.

Telephone: (816) 826-7100.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-1(126-126)(B).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $9,817.

Descriptors: Administrator-Attitudes. Articulation-Education. Curriculum-Evaluation. Surveys. Teacher-Attitudes.

Identifiers: State. Proposal.

The potential for articulating Missouri vocational education programs will be identified by critically examining curriculum, the process of articulation, and current attitudes of administrators and instructors of vocational education programs. A steering committee comprising two groups, one for curriculum and the other for the process of articulation, will develop and conduct a survey to measure administrator and instructor attitudes toward articulation. If survey results are positive, then competencies will be determined and a model suggested. Written quarterly reports and a final report will be delivered.

MO8413123.

Developing the Marketing of the Adult College Reentry Network

at Mineral Area College (Continuation of MO8313111).

Project Director: Cox, Dennis E.

Organization: Mineral Area College Flat River, MO 63601.

Telephone: (314) 431-4593.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-1(163-163).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,250.

Descriptors: Adult-Students. Institutional-Advancement. Publicity. Student-Recruitment. Workshops.

Identifiers: State. Proposal.

Four workshops will be offered for adults reentering school in order to meet the following objectives: increase enrollment in the adult reentry workshop, increase participation of persons new to the campus, and increase enrollment of males in the workshop. Specific marketing and advertising techniques will include having each participant complete a questionnaire giving data pertinent to the project; newspaper ads, brochures, and posters; outdoor advertising; and 'gift of learning' gift certificates available for each workshop. A videotape of portions of the workshop will be produced and used to inform college staff and community groups of the workshop activities. Quarterly reports will be made. A final report will summarize the effectiveness of the advertising and marketing techniques used for the adult reentry workshop.

MO8413124.

A Multidisciplinary Research Team Approach to Computer-aided Drafting (CAD) System Selection.

Project Director: Franken, Kenneth

Organization: Linn Technical College Linn, MO 65051.

Telephone: (314) 897-3603.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (076-082) (A).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,490.

Descriptors: Computer-Assisted-Instruction. Drafting. Educational-Equipment. Program-Evaluation.

Identifiers: State. Proposal.

CAD books, pamphlets, newsletters, and periodicals will be researched and reviewed to select twenty CAD systems for evaluation concerning their assets, liabilities, and needed equipment to complement the system. Data obtained on ten CAD systems will be validated, and a single system will be recommended. Quarterly and final reports will be delivered.

MO8413125.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.

Project Director: Rohrbach, N. F.

Organization: University of Missouri—Columbia Agricultural Education, 435 General Classroom Building, Columbia, MO 65211.

Telephone: (314) 882-7451.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (116-116) (C).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,495.

Descriptors: Agricultural-Education. Credit-Finance. Farm-Management. Investment. Lesson-Plans. Supervised-Farm-Practice. Tax-Credits. Taxes.

Identifiers: State. Proposal. *Depreciation. *Investment Credit. *Supervised Occupational Programs.

A revised lesson plan for depreciation and investment credit will be developed. Changes in the 1981 tax law relating to depreciation and investment credit will be reviewed. Those concepts which should be taught in vocational agriculture programs will be identified. Appropriate lesson plans developed to replace those in farm management and supervised occupational experience will be reviewed for content accuracy and instructional appropriateness, then distributed. Quarterly reports will also be delivered.

MO8413126.

Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.

Project Director: Henson, Linda

Organization: Jefferson College Hillsboro, MO 63050.

Telephone: (314) 789-3951.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-2 (145-145) (C).

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $1,500.

Descriptors: Business-Education. Feasibility-Studies. Office-Occupations-Education. Program-Implementation. Technology. Telecommunications.

Identifiers: State. Proposal.

Information for implementing telecommunications into office technology curriculum at Jefferson College will be gathered. The possibility of establishing a college telecommunications network within the midwest will be explored. Offices using telecommunications will be visited. Business curriculum utilizing telecommunications to emulate private industry will be examined. A final report will be delivered.

MO8413127.

The Role of Vocational Education in Productivity—Phase 1.

Project Director: Harrison, Lindell

Organization: State Fair Community College 1900 Clarendon Road, Sedalia, MO 65301.

Telephone: (816) 826-7100.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-131/132-600-1 (126-126) (C).

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $15,544.

Descriptors: Curriculum-Development. Learning-Modules. Management-Systems. Productivity. Program-Design. School-Business-Relationship.

Identifiers: State. Proposal.

A program will be designed that assists businesses and industries in awareness, assessment, and improvement of productivity. Additional curriculum modules for Productivity Management System will be developed. Project staff will meet with representatives from business and industry and review the program design. An instrument will be developed to evaluate the program on the basis of cost effectiveness ratio. Modules developed will be pilot tested. Quarterly reports will be delivered.

Curriculum Development (Sec. 133)

MO8413301.

Vocational Education Curriculum Development.

Project Director: Schlichting, Harley

Organization: University of Missouri—Columbia 10 Industrial Education Building, Columbia, MO 65211.

Telephone: (314) 882-2883.

Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.

Contract/Control No.: CN: 84-133-600-1 (116-116)(A).

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $182,239.

Descriptors: Guides. Instructional-Materials. Material-Development.

Identifiers: State. Proposal. Pneumatics.

Curriculum materials will be developed in the following areas: agribusiness, fruit and vegetable production, hydraulics/pneumatics, plastics, developmental assistant 1, homemaker/home health aide, intermediate nutrition and food management, field test middle school, junior high school guide, and clerical/secretarial guide. Advisory committees will research background information, write and edit curricula, and conduct field tests. The final report will be reviewed to see that project objectives were accomplished or addressed.

MO8413302.
Resource Center.
Project Director: Schlichting, Harley
Organization: University of Missouri—Columbia 10 Industrial Education Building, Columbia, MO 65211.
Telephone: (314) 882-2883.
Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.
Contract/Control No.: CN: 84-133-600-1 (116-116)(B).
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $26,838.
Descriptors: Administrators. Inservice-Teacher-Education. Instructional-Materials. Resource-Centers. State-Departments-of-Education. Teacher-Educators. Vocational-Education-Teachers.
Identifiers: State. Proposal.

A resource center will be maintained to provide ready access to curriculum materials and information. The center will help: (1) local administrators and vocational teachers in curriculum planning and adoption of institutional materials; (2) vocational teacher educators in preparing preservice and inservice instruction; and (3) state department staff in curriculum planning, priority selection of adoption, adaptation, and/or development of needed curriculum. The center also will maintain competency lists and profiles of occupational areas to aid vocational educators in implementing the vocational instructional system. The final report will be reviewed to see that project objectives were accomplished or addressed.

MO8413303.
Individualized/Mediated Curriculum Materials Development for Vocational Education.
Project Director: Evans, Shirley
Organization: State Fair Community College 1900 Clarendon Road, Sedalia, MO 65301.
Telephone: (816) 826-7100.
Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.
Contract/Control No.: CN: 84-133-600-2 (126-126).
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $159,970.
Descriptors: Audiotape-Recordings. Individualized-Instruction. Material-Development. Modules.
Identifiers: State. Proposal.

Slide-tape modules will be developed on the following content areas: business and office, dental assisting, machine shop, and auto mechanics. Advisory committees will review the final products before field testing. The final report will be reviewed to see that project objectives were accomplished or addressed.

MO8413304.
Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development.
Project Director: Schlichting, Harley
Organization: University of Missouri—Columbia 10 Industrial Education Building, Columbia, MO 65211.
Telephone: (314) 882-2883.
Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.
Contract/Control No.: CN: D84-133-600-1 (116-116).
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,009.
Descriptors: Competency-Based-Education. Delivery-Systems. Instructional-Materials. Teacher-Workshops. Vocational-Education-Teachers.
Identifiers: State. Proposal.

A one-day dissemination workshop will be held to acquaint Missouri vocational educators with competency-based instructional materials. Letters telling about the workshop will be sent to area vocational technical school directors and comprehensive high school administrators. The use of a workshop as a dissemination tool will be analyzed. The final report will be reviewed to see that project objectives were accomplished or addressed.

MO8413305.
Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum.
Project Director: Evans, Shirley
Organization: State Fair Community College 1900 Clarendon Road, Sedalia, MO 65301.
Telephone: (816) 826-7100.
Sponsoring Agency: Missouri State Dept. of Elementary and Secondary Education, Jefferson City.
Contract/Control No.: CN: D84-133-600-2(126-126).
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $2,893.
Descriptors: Advertising. Catalogs. Curriculum. Delivery-Systems. Individualized-Instruction. Instructional-Materials. Modules.
Identifiers: State. Proposal.

Copies of the individualized mediated curriculum modules will be disseminated to Missouri schools and colleges. A current mailing list of vocational educators will be computerized and used for mailing the FY 1984 catalog that includes the modules. The modules will be advertised in the MVA Reporter and at conference exhibits. On-site visits will be made to nine or more vocational schools/colleges. Modules and promotional materials will be delivered to the industrial education, business and office education, special needs, equity, and research coordinating unit sections of the Department of Elementary and Secondary Education. A brochure will be developed to announce modules developed last year. A final report of dissemination activities will be delivered.

Montana

Research (Sec. 131)

MT8413101.

Articulation Research of Business and Office Education.

Project Director: Hertz, Dan

Organization: Montana State University School of Business, Bozeman, MT 59717.

Telephone: (406) 994-4995.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-25-17-R412.

Funding Period: Start Date 01 Jul 83; End Date 15 Sep 83.

Fiscal Year Funding: $5,000.

Descriptors: Articulation. Business-Education. Educational-Research. Office-Occupations-Education.

Identifiers: State. Proposal.

A literature review and survey will be conducted concerning articulation of business and office education concepts and skills at all levels—specifically, grades K-4, grades 5-6, grades 7-9, grades 10-12, postsecondary, baccalaureaate, master's, and adult. An opportunity will be provided for all populations germane to business and office education, including the handicapped. Nontraditional employment opportunities will be addressed. A final report will be developed for dissemination and use for updating curricula.

MT8413103.

Using Personal Computers to Promote Economic Development.

Project Director: Dodge, Richard

Organization: Eco Northwest Ltd. 1400 Eleventh Avenue, Helena, MT 59601.

Telephone: (604) 442-6075.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-6268-05-25-22-R416.

Funding Period: Start Date 01 Oct 83; End Date 01 Apr 84.

Fiscal Year Funding: $11,340.

Descriptors: Computer-Software. Economic-Development. Educational-Research. Instructional-Material-Evaluation. Microcomputers.

Identifiers: State. Proposal. *Small Businesses.

Small businesses statewide will be surveyed to determine the intended or existing use of personal computers; data will be analyzed. Available software will be obtained to determine the ease of software revision for agribusiness or small business owners. Four firms will be identified to field-test software packages with their business operations. These firms will receive training and supervision to ensure successful applications. A final report will include survey and field test results.

MT8413105.

A Planning Process for Secondary Vocational Education.

Project Director: Finnie, Bruce

Organization: Eco Northwest Ltd. 1400 Eleventh Avenue, Helena, MT 59601.

Telephone: (406) 442-6075.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,980.

Descriptors: Educational-Planning. Educational-Research. Labor-Markets. Occupational-Information.

Identifiers: State. Proposal.

Labor market information will be provided to instructors and administrators to determine the demand for labor by occupation. A mechanism will be developed to determine if the current curriculum is consistent with the demand for labor, and a procedure for analyzing the success of current programs will be developed. The resulting methodology will be field-tested in three school systems; revisions to the approach will be made based on information obtained. A specific course of action will be recommended in the final report to improve the training curriculum by better serving student needs.

MT8413107.

Agriculture/Agribusiness Manpower Research.

Project Director: Amberson, Max

Organization: Montana State University Agriculture and Industrial Education, Bozeman, MT 59717.

Telephone: (406) 994-2132.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-25-22-R415.

Funding Period: Start Date 01 Oct 83; End Date 01 Apr 84.

Fiscal Year Funding: $10,000.

Descriptors: Agribusiness. Employment-Opportunities. Employment-Projections. Labor-Needs. Labor-Turnover.

Identifiers: State. Proposal. *Job Titles. Classification of Instructional Programs.

Agriculture businesses in Montana will be identified, and a survey will be mailed to 1600 businesses. Job titles in the area of agribusiness will be determined by CIP (Classification of Instructional Program). The turnover rate by job titles will be estimated for the years 1980-83. Current vacancies and future manpower needs also will be estimated. This data will be compiled into tabular and narrative form and included in the final report. Two consultants—one skilled in research and the other skilled in occupational analysis—will review the project.

MT8413109.

Determine Personal Characteristics Which Make Students More Employable in Agriculture.

Project Director: Bishop, Douglas; Shelhamer, Van

Organization: Montana State University Department of Agriculture and Industrial Engineering, Bozeman, MT 59717.

Telephone: (406) 994-3691.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-25-22-R413.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,500.

Descriptors: Agribusiness. Agricultural-Education. Employer-Attitudes. Employment-Potential. Individual-Characteristics. Success. Surveys. Units-of-Study.

Identifiers: State. Proposal.

Several experienced agribusiness consultants will be selected to serve as an advisory council. A survey instrument will be developed to assess characteristics that agribusiness employers think are important, and the survey will be conducted. Results will be used to develop an instructional unit for teaching students how to develop the identified characteristics.

MT8413111.

Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana.

Project Director: Shelhamer, Van

Organization: Montana State University Agricultral and Industrial Education, Cheever Hall, Bozeman, MT 59717.

Telephone: (406) 994-3693.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: CN: 84-5703-05-24-22-R414.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Agricultural-Education. Student-Attitudes. Supervised-Farm-Practice.

Identifiers: State. Proposal. *Impact Education. *Supervised Occupational Programs.

The extent to which Supervised Occupational Experience (SOE) is being taught as part of the vocational agriculture program, the impact of SOE on the educational experience of students, the frequency of teacher visitations to students with and without SOE, and students' perceptions of SOE and teacher visitations will be determined. The effects of SOE visitations on student attitude toward vocational agriculture and the local school will be assessed. An instructional unit on implementing and improving SOE will be developed and distributed. Following a literature review, a questionnaire will be developed and validated and mailed to a stratified random sample of students reported as having two or more years of supervised occupational experience. SOE records submitted to the state agriculture supervisor for the past four years will be examined. Data will be summarized and appropriate statistics applied. A narrative containing data in a table form will be delivered.

Exemplary and Innovative (Sec. 132)

MT8413201.

Network Communications Utilizing Remote Sites as Exemplary Demonstration Sites on Microcomputers in Business Education.

Project Director: Patton, William

Organization: University of Montana Missoula, MT 59812.

Telephone: (406) 234-5023.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: CN: 84-5704-05-22-16-E504.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $8,000.

Descriptors: Teacher-Workshops. Telecommunications.

Identifiers: State. Proposal. *Hands On Experience.

A hands-on program for learning about the use of modern electronic communication systems will be made available to teachers in schools in western Montana. Four schools will be selected as sites for the microcomputer workshops. A model telecommunications system will be designed and developed to allow the pilot schools to communicate with the University of Montana Wang system in the department of business education. Project results, including methodology for integration, student performance, and results of the computer programming, will become part of potential presentations and news articles to be disseminated statewide. A five-member advisory committee will be established consisting of management information instructors at the University of Montana, computer programmers in the university's administrative center, successful high school and elementary computer instructors from the Missoula area, and selected special education instructors.

MT8413203.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.

Project Director: Holmes, H. Lee; Dorrance, Paul

Organization: Helena Public Schools PO Box 5417, Helena, MT 59601.

Telephone: (406) 442-8090.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-2502-05-22-16-E505.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $9,138.

Descriptors: Competency-Based-Education. Computer-Assisted-Instruction. Computer-Software. Drafting. Electronics. Industrial-Education. Microcomputers. Models. Program-Development. Teaching-Methods.

Identifiers: State. Proposal.

A competency-based, task-orientd, computer-assisted teaching program for industrial education courses will be developed. It will have direct application to drafting and electronics. The model will permit students daily opportunity to input-output data (test-taking, worksheet completion, design, instructions). Upon graduation the student may obtain a printout of all developed job skills. The model also will help with individualized instruction recordkeeping. Computer hardware will be purchased, and software will be rewritten as needed. Inservice training for other schools will be conducted. Telephone linkage to cooperating schools will enable technical assistance to be provided. Copies of the software and project findings will be made available.

Curriculum Development (Sec. 133)

MT8413301.

Word Processing Instructional Materials for the CPT.

Project Director: Slaymaker, Josephine

Organization: Great Falls High School PO Box 2428, Great Falls, MT 59405.

Telephone: (406) 791-2181.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: CN: 84-0702-05-23-16-C613.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,401.

Descriptors: Learning-Modules. Material-Development. Word-Processing.

Identifiers: State. Proposal.

An educational learning package with ample related activities and testing opportunities will be created, tested, and evaluated for use by high school students individually or in groups. Materials will be evaluated and used as they are designed. Then, they will be redesigned and revised where needed with as much student input as possible. After students have tried the entire program, the materials will be evaluated again and redesigned as needed. Students who use the program will understand the concept of word processing and know the terminology and will be able to apply word processing to specific tasks, therefore possessing entry-level skills. They will show initiative and a sense of responsibility for quality, quantity, and economy in production. Also, cooperative vocational students will be informed of career options available. An evaluation team will be established to evaluate the project.

MT8413303.

Updating Montana Curriculum Guidelines for Distributive Education.

Project Director: Harris, Ronald R.

Organization: Montana State University 446 Reid Hall, Bozeman, MT 59717.

Telephone: (406) 994-4874.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-23-16-C614.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,965.

Descriptors: Distributive-Education. Guidelines. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

In updating the guidelines, emphasis will be placed on the resources of the following sections of the handbook: Introduction to Marketing and Distributive Education, Human Relations and Communications, Operations and Control, Processes Involved in Buying for Resale, Merchandise Handling, Sales Promotion, Sales and Service, and Management and Decision Making. Instructors in the field will be consulted to see what materials should be included. Additionally, a microcomputer section will be added using selected information, materials, and resources regarding microcomputer applications for distributive education. The microcomputer unit field test in one high school setting will be evaluated. Finally, selected areas of the guidelines will be field-tested with selected volunteers to ascertain the guidelines' effectiveness. All distributive education teachers in Montana will receive copies of the updated guidelines.

MT8413305.

Computer Assisted Instruction in Feeds and Feeding.

Project Director: Van Shelhamer, C.

Organization: Montana State University Department of Agriculture and Industrial Education, Bozeman, MT 59717.

Telephone: (406) 994-3693.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-23-22-C616.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Agricultural-Education. Competence. Computer-Assisted-Instruction. Computer-Programs. Employment-Qualifications. Entry-Workers. Problem-Solving.

Identifiers: State. Proposal. *Feeds and Feeding.

A computer program for teaching requisite competencies for entry-level employment will be developed and field-tested in selected vocational agriculture programs. The program, developed for competencies that could be taught appropriately using a microcomputer, will require students to solve problems and will be usable by the handicapped. An evaluation instrument will be developed to test the effectiveness of the software. The effectiveness of using a microcomputer as a teaching tool will be determined through the field test.

MT8413307.

Updating Vocational Agricultural Curriculum Resource Units.

Project Director: Bishop, Douglas.

Organization: Montana State University Department of Agriculture and Industrial Education, Bozeman, MT 59717.

Telephone: (406) 994-3692.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-23-22-C617.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,000.

Descriptors: Agricultural-Education. Computer-Oriented-Programs. Units-of-Study.

Identifiers: State. Proposal. *Related Instruction.

Instructional units that relate to the core curriculum will be reviewed, refined, published in the form of lesson plans, and distributed to each vocational agriculture teacher. Newly developed materials will be made available to local programs, and the way the units can improve local programs will be demonstrated. Activities will be incorporated that may result in computer application. Finally, seven vocational units currently used will be revised, updated, printed, and disseminated. Experienced vocational agriculture teachers will be selected to serve as an advisory council.

MT8413309.

Development and Implementation of Curriculum for Wage Earning Home Economics Programs.

Project Director: Parsons, Angelina.

Organization: Montana State University Department of Home Economics, Herrick Hall, Bozeman, MT 59717.

Telephone: (406) 994-5020.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: CN: 84-5703-05-23-21-C615.

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $8,000.

Descriptors: Curriculum. Home-Economics. Home-Economics-Teachers. Instructional-Materials. Occupational-Home-Economics.

Identifiers: State. Proposal. *Wage Earning. Future Homemakers of America. Home Economics Related Occupations.

Suggested home economics wage-earning curriculum will be introduced to home economics teachers, and evaluations will be obtained from about fifty teachers who are using a wage-earning curriculum. Supplemental materials then will be supplied to selected teachers, who will evaluate the materials. Also, inservice programs and technical assistance will be provided to home economics teachers in using the Future Homemakers of America/Home Economics Related Occupations (FHA/HERO) Proficiency Events Handbook, and evaluations will be obtained at the State Leadership Conference from about eighty-five teachers using the handbooks. Following revision of the handbook, evaluations will be obtained from ten to fifteen FHA/HERO chapter advisors. Additionally, an assessment instrument for determining the needs of adults requiring retraining in home economics related occupations will be developed, administered, and evaluated. A final report will be delivered.

MT8413310.

Industrial Education Curriculum Development.

Project Director: Polette, Doug.

Organization: Montana State University Department of Agriculture and Industrial Education, Bozeman, MT 59717.

Telephone: (406) 994-5773.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: PN: 84-5703-05-23-17-C618.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,000.

Descriptors: Curriculum-Development. Curriculum-Guides. Industrial-Education. Teacher-Participation. Trade-and-Industrial-Teachers.

Identifiers: State. Proposal.

Montana industrial education teachers will be involved in the revision of the Industrial Education Curriculum Guide. A review panel will make the original revision and will then receive teacher input at six regional meetings. A final report will be delivered.

MT8413311.

Instruction in Intravenous Therapy.

Project Director: Nelson, Marion.

Organization: Great Falls Vocational-Technical Center 2100 Sixteenth Avenue South, Great Falls, MT 59405.

Telephone: (406) 791-2100.

Sponsoring Agency: Montana State Office of the Superintendent of Public Instruction, Helena.

Contract/Control No.: CN: 84-6101-05-23-17-C619.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,512.

Descriptors: Curriculum-Development. Inservice-Teacher-Education. Nurses. Nursing-Education. Practical-Nursing. Teacher-Improvement.

Identifiers: State. Proposal. *Intravenous Therapy.

A curriculum for intravenous therapy will be developed for licensed practical nurses. Resource people will be consulted on the legal and operational procedures of inravenous therapy. Practical nurse instructors representing each vocational-technical center in Montana will upgrade their skills and knowledge in the administration of intravenous therapy. The final curriculum will be presented to the Montana State Board of Nursing for approval.

Nebraska

Curriculum Development (Sec. 133)

NE8413301.
Nebraska Vocational Curriculum Resource Center (Continuation).
Project Director: Fahrlander, Nadine
Organization: Center for Vocational Education Kearney State College, West Campus W209, Kearney, NE 68849.
Telephone: (308) 236-4457.
Sponsoring Agency: Nebraska State Dept. of Education, Lincoln.
Contract/Control No.: CN: 133-84-01.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $25,000.
Descriptors: Education-Service-Centers. Instructional-Materials.
Identifiers: State. Proposal.

The Nebraska Vocational Curriculum Resource Center (NVCRC) will continue to serve as a focal point for the collection, acquisition, dissemination, and diffusion of vocational educational curriculum materials and as a facilitating mechanism for review and evaluation of such materials. Additionally, task force meetings will be coordinated as needed for assessment and review of center activities. The director of Kearney's Center for Vocational Education will manage the NVCRC budget and the NVCRC office clerk will be responsible for office operations, while the NVCRC director will be responsible for NVCRC operation and promotion. Newsletters will be sent to Nebraska vocational educators two times during the school year.

NE8413302.
Nebraska Vocational Curriculum Resource Center Catalog.
Project Director: Fahrlander, Nadine
Organization: Kearney State College Center for Vocational Education, West Campus W209, Kearney, NE 68847.
Telephone: (308) 236-4457.
Sponsoring Agency: Nebraska State Dept. of Education, Lincoln.
Contract/Control No.: PN: 133-84-02.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $3,000.
Descriptors: Catalogs. Information-Dissemination. Resource-Centers. Resource-Materials.
Identifiers: State. Proposal.

Vocational educators in Nebraska will be informed about available materials, and the Nebraska Vocational Curriculum Resource Center (NVCRC) will be promoted as a viable, up-to-date library. Use of the National Center for Education Statistics (NCES) Classification of Instructional Programs as the NVCRC classification system will be initiated. The catalog produced will facilitate review and evaluation of NVCRC materials, provide access to materials by title and subject, and be easily supplemented.

New Jersey

Research (Sec. 131)

NJ8413101.

High Technology Training Needs Assessment.

Project Director: Spano, Frank

Organization: Middlesex County College Edison, NJ 08818.

Telephone: (201) 548-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-421.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $17,250.

Descriptors: Job-Training. Labor-Force-Development. Needs-Assessment. Occupational-Surveys. Retraining. School-Business-Relationship. Technological-Advancement.

Identifiers: State. Proposal.

The assessment will be conducted to (1) establish a comprehensive data base for area employers, including the names and positions of managers in charge of training, in-house training capabilities, and sources of external training services; (2) identify firms with a need for retraining or hiring of personnel with skills appropriate to the introduction of high technology; and (3) develop, in cooperation with area employers, a projection of high technology labor needs in the next three to five years together with a projection of the necessary job preparation. The data will be analyzed and rendered into a formal report. The findings then will be disseminated to cooperating employers at a 'Retraining for High Technology' conference. The identified needs will be secured through the implementation of a high technology training institute, which, with input from local and state government officials and selected representatives of organized labor, will be established to develop and conduct courses, workshops, seminars, and consultation services for area business and industry. About 100 representative employers of personnel in the engineering or scientific technology clusters will be surveyed. The three cluster categories include (1) computer science and electrical engineering; (2) civil engineering, energy (heating, ventilating, and air conditioning), and mechanical engineering; and (3) biological, chemical, and environmental science technologies.

NJ8413102.

Special Services for Handicapped Students.

Project Director: Garofano, Jane S.

Organization: Bergen County Community College 400 Paramus Road, Paramus, NJ 07652.

Telephone: (201) 447-7100.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-420.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,300.

Descriptors: Ancillary-School-Services. Counseling-Effectiveness. Disabilities. Educational-Equipment. Evaluation-Criteria. Office-Occupations-Education. Special-Education.

Identifiers: State. Proposal.

To develop a model for a center for special services for handicapped students, research activities will be conducted in the area of business technologies to (1) determine the proper equipment (i.e., typewriters, voice recognition units, Braille keyboards, pressure screens); (2) learn about developing manuals, guides, and teaching and testing materials for use by educators in regular or special vocational programs; and (3) determine the various occupations and entry level skills, enrollment trends, employment demands, and curriculum modifications necessary for implementation. Criteria then will be developed for evaluating the effectiveness of counseling for the handicapped in advisory councils, vocational guidance programs, experience-based career education, and cooperative education. Handicap awareness and training workshops will be designed for administrators and faculty demonstrating the need for additional involvement, cooperation, and commitment.

NJ8413103.

Development of Student Achievement Measures for Vocational Education.

Project Director: Drawbaugh, Charles C.

Organization: Rutgers, The State University Department of Vocational-Technical Education, Graduate School of Education, New Brunswick, NJ 08903.

Telephone: (201) 932-7937.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-402.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $30,694.

Descriptors: Consortia. Data-Analysis. Feedback. Inservice-Education.

Identifiers: State. Proposal.

New Jersey will remain part of the Student Occupational Competency Achievement Testing (SOCAT) consortium, thereby enabling its use of SOCAT measures and scoring services at a consortium rate. Data from last year's administration will be analyzed and results discussed in terms of instructional improvement with each school involved. Further, inservice training of examiners and administrators will be carried on to ensure a cadre of capable examiners; certification or recognition will be awarded.

NJ8413104.

Vocational Individual Proficiencies (VIP).

Project Director: Leighty, Gerald T.

Organization: Warren County Vocational-Technical School RD 1, Route 57, Box 168A, Washington, NJ 07882.

Telephone: (201) 689-0122.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-406.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $16,665.

Descriptors: Competence. Entry-Workers. Job-Skills. Occupational-Surveys. School-Business-Relationship.

Identifiers: State. Proposal.

Entry level skills for various occupations will be determined so that standard proficiencies may be established in various vocational programs that would reflect the current needs of business and industry. To provide employment mobility for graduates, business and industry input will be sought nationwide. Curriculum then will be modified or developed so that these proficiencies may be developed. Finally, written and performance tests will be constructed to evaluate student proficiency.

NJ8413105.

Robotics Program Feasibility Study.

Project Director: Braun, Jack R.

Organization: Burlington County College Pemberton-Browns Mills Road, Pemberton, NJ 08068.

Telephone: (609) 894-9311.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-416.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,100.

Descriptors: Feasibility-Studies. Occupational-Surveys. Robotics. School-Business-Relationship.

Identifiers: State. Proposal.

A local advisory committee will be used to verify the need for area industries for a robotics technology program. The committee will determine entry-level skills, determine what topics industry would like addressed, identify existing robotics programs from within and without the state and collect course material used, and determine what courses should be included in the program.

NJ8413106.

Concurrent Validity Research on Vocational Assessment of the Physically Handicapped.

Project Director: Donnelly, Beth

Organization: Brookdale Community College Career Services for the Handicapped, Newman Springs Road, Lincroft, NJ 07738.

Telephone: (201) 842-1900.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-407.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $13,900.

Descriptors: Disabilities. Research-Projects. Testing. Test-Validity. Vocational-Evaluation.

Identifiers: State. Proposal.

Research and field-testing tasks will be conducted to determine if handicapped persons can be successfully tested yielding reliable results for use in determining their abilities, aptitudes, personality characteristics, work skills, and vocational interests. Also, the administration of standardized tests in groups to handicapped persons provided with adaptive assistance will be studied. The research will result in formulation of a vocational test battery for handicapped adults. Thiry handicapped participants will be selected as pilot testing subjects for the assessment battery, which will be administered in three ways to each participant: individually with a psychologist; in a group using instruments normed and pilot tested for specific disabilities; and with adaptive circumstances and support services such as interpreters, writers, and readers. Data will be collected and analyzed and conclusions made by a team of evaluators. Reports will be published documenting the research results and proposing suggestions for further study and methods of replication and implementation.

NJ8413107.

Research and Experimentation in Applied Learning.

Project Director: Washington, George T.

Organization: COED 223 Broadway, Newark, NJ 07104.

Telephone: (201) 648-2475.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-412.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,835.

Descriptors: Basic-Skills. Comparative-Analysis. Educational-Research. Pilot-Projects. Remedial-Programs. Student-Improvement.

Identifiers: State. Proposal. *Applied Learning. *Vocational Linked Method.

A pilot project will be conducted to make two determinations about students taught by the vocational-linked method of instruction as compared to students taught by the traditional method of instruction: if they will show a marked increase in reading, math, and communication skills and if they will show an improvement in motivation and interest which will result in better attendance. To accomplish this, applied learning methods and materials in secondary school basic skills remediation programs will be studied for development and implementation of such a program. Two separate learning centers will be used. Student progress in both control and experimental groups will be evaluated and compared, and successful methods and materials will be identified.

NJ8413108.

Computer Applications for Special Needs Students.

Project Director: Grieco, John

Organization: Bergen County Vocational Schools 200 Hackensack Avenue, Hackensack, NJ 07601.

Telephone: (201) 343-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-422.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $32,300.

Descriptors: Computer-Assisted-Instruction. Computer-Oriented-Programs. Disabilities. Disadvantaged. Educational-Diagnosis. Educational-Research. Learning-Disabilities. Management-Information-Systems. Microcomputers. Program-Effectiveness.

Identifiers: State. Proposal.

Determination will be made of the effectiveness of the microcomputer as a tool to (1) diagnose and evaluate the level of learning disabilty of each handicapped student, (2) provide interactive instruction in basic and vocational skills, and (3) communicate and provide recreational activities. Additionally, computerized remedial programs will be developed and their effectiveness evaluated. As a result of this investigation, interactive computer programs at appropriate levels of learning will be developed to assist in teaching vocational skills to handicapped adolescents. The project also will address the setting up of computerized procedures for collection of student information and their case histories; administration and evaluation of diagnostic testing; and selection, administration, and evaluation of the computer-assisted remedial programs. Finally, project staff will model, develop, and implement a data base management information and reporting system for educators and administrators of special education.

NJ8413109.

Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped.

Project Director: McGettigam, James

Organization: Educational Information and Resource Center 207 Delsea Drive, RD 4, Box 209, Sewell, NJ 08080.

Telephone: (609) 228-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-411.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $13,995.

Descriptors: Faculty-Development. Guidelines. Inservice-Teacher-Education. Needs-Assessment. Teacher-Improvement. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Training needs of teachers in seven area vocational-technical schools will be determined, and guidelines will be developed for instituting projects and professional development activities. Twenty-eight training sessions then will be conducted to determine the effectiveness of the match between assessed needs and training. Each teacher will (1) do a personal/professional needs assessment, (2) take an Attitude toward Disabled Persons Scale (before and after), and (3) assist in planning for and attend four group sessions on training variables (handicapped information, school organization, teaching strategies, and pupil data). The project will result in measured teacher attitude changes, guidelines for using needs assessments of vocational teachers, and a professional development training model addressing common perceived needs of vocational teachers.

NJ8413110.

Ocean County Vocational-Technical School's Model for Gifted and Talented Entrepreneurship Training Program.

Project Director: Newman, Robert C.; Felice, Fred

Organization: Ocean County Vocational-Technical School District Old Freehold Road and Bey Lea, Toms River, NJ 08753.

Telephone: (201) 240-6414.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SREG-408.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $27,750.

Descriptors: Entrepreneurship. Gifted. Talent.

Identifiers: State. Proposal. Program for Acquiring Competence in Entrepreneurship (PACE).

Meeting the needs of the gifted and talented, this project also is designed to train entrepreneurs. Program design encompasses the PACE (Program for Acquiring Competence in Entrepreneurship) program, local business experts, and a full-time teacher-coordinator who will (1) identify gifted and talented students; (2) obtain curriculum materials and speakers, in addition to teaching; and (3) evaluate program effectiveness using an experimental model with forty selected students. Business persons will afford qualified students the opportunity to experience firsthand reporting and instruction in the use of wide range of interdisciplinary business management concepts most essential to successful implementation of entrepreneurship.

Exemplary and Innovative (Sec. 132)

NJ8413201.

Career Speech Development.

Project Director: Goodkin, Louis

Organization: Cumberland County College PO Box 517, Vineland, NJ 08360.

Telephone: (609) 691-8600.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 419.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,224.

Descriptors: Communication-Skills. Limited-English-Speaking. Program-Development. Pronunciation-Instruction. Second-Language-Instruction. Spanish-Speaking. Speech-Communication.

Identifiers: State. Proposal.

A speech program will be developed to assist limited English-speaking students who desire work that requires extensive verbal communication. Elements of speech therapy (tongue and lip movements necessary to pronounce English language sounds correctly) will be combined with public speaking and extensive media practice, both television and audio. Thirty hispanic students will participate in the initial program, which, after refinement, will become a regular offering to supplement the college's program for limited English-speaking students. Program completers will satisfy the local labor needs for trained, bilingual employees.

NJ8413202.

Vocational Career Training Center.

Project Director: Barry, Marie

Organization: Jersey City Board of Education Vocational Career Training Center, 41 Erie Street, Jersey City, NJ 07306.

Telephone: (201) 547-5626.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 442.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,068.

Descriptors: Career-Guidance. Computer-Literacy. Course-Organization. Disadvantaged. Entry-Workers. Interactive-Instruction. Job-Skills.

Identifiers: State. Proposal.

Job entry skills for computer-related occupations will be taught to 100 disadvantaged pupils through three course offerings. In-depth, interactive computer career guidance to familiarize students with required special skills and other requirements of their career choices will be provided to an increased number of disadvantaged students. Further, guidance counselors will be provided with a method to identify non-goal-oriented students in order to develop goal-related programs for them.

NJ8413203.

Regional Job Title for Classified Students.

Project Director: Nissman, Blossom S.

Organization: Westampton Board of Education acting as LEA for Central Burlington County Region for Special Education Westampton School, RD 1, Mt. Holly, NJ 08060.

Telephone: (609) 267-9238.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 402.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,200.

Descriptors: Disabilities. Employment-Opportunities. Entry-Workers. Occupational-Surveys. Special-Education.

Identifiers: State. Proposal.

A consultant will be hired to develop within this ten-school consortium area a job market for special education students and to obtain listings of contact persons, entry-level jobs, and requirements for those jobs. The consultant will contact all business persons in the area, describe the 'classified' student to them, and gain a commitment about future employment. The listing obtained will be useful as a base for summer and part-time employment, as well as for full-time employment upon graduation.

NJ8413204.

Project Career Reach.

Project Director: Staninas, Anthony

Organization: Parsippany-Troy Hills Board of Education Vail and Baldwin Roads, Parsippany, NJ 07054.

Telephone: (201) 263-7545.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 407.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,185.

Descriptors: Community-Programs. Community-Resources. Delivery-Systems. Disadvantaged. Experiential-Learning. Information-Dissemination. Networks. Occupational-Information. Resource-Centers. School-Community-Relationship.

Identifiers: State. Proposal. Career Interns. Quality Circles. Shadowing.

A career resource center will be developed with dissemination strategies to reach disadvantaged students and community members who are least impacted by current services. Community resources will be linked with the center in a network to provide experience-based programs and information delivery strategies. Community staff will identify community career information needs and establish a career phone and career reach library, as well as the network and center. They will train peer career counselors to encourage center use and employ non-goal oriented students and potential dropouts as career interns in experience-based career education. Other activities will include producing a community Careerline newsletter, placing students in community shadow stations, inviting guest career trainers into the school, and implementing quality circles to involve all participants in ongoing program improvement and evaluation. The phone, print, and counselor delivery methods can easily be reproduced and integrated into existing programs and will be explained in the program manual.

NJ8413205.

Project Pacer (Peer-Assisted Computer Exposure and Remediation).

Project Director: Thomas, Ellen

Organization: Middlesex County College Woodbridge Avenue, Edison, NJ 08818.

Telephone: (201) 548-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: 84000445; PN: SEMG 436.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $11,900.

Descriptors: Computer-Literacy. Computer-Science. Disadvantaged. Peer-Teaching. Remedial-Programs. Student-Improvement. Tutoring.

Identifiers: State. Proposal.

High risk students (those with no computer literacy) will be identified and taught computer technology while tutoring in job-related skills, thereby increasing their employability and learning efficiency. Assigned tutors will provide follow through. Attrition will be reduced through individualized, computer-assisted remediation programs established for participants in basic skills and core curriculum areas. Peer tutoring and advisement on an appointment or drop-in basis will be provided to increase student chance of success in career curricula.

NJ8413206.

Using Handicapped Workers as Career Role Models in Career Development.

Project Director: Schmelter, Harvey; Donnelly, Beth

Organization: Brookdale Community College Newman Springs Road, Lincroft, NJ 07738.

Telephone: (201) 842-1900.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 435.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $32,311.

Descriptors: Career-Guidance. Disabilities. Role-Models. Teaching-Guides.

Identifiers: State. Proposal.

Handicapped employees from the local community will be recruited to provide inspiration, set positive examples, and serve as sources of timely and specific career information about the unique problems and situations that handicapped workers encounter. They also will act as an internal network for referral and suggestions in job searching. Additionally, seventy-five handicapped persons, employed in a wide variety of career fields, will address other project participants at a career fair conference for the physically handicapped. To document and record information, project staff will produce eighteen to twenty-four videotapes of handicapped employees at their places of business. A supplementary instructional manual also will be produced, and all resources will be available through a lending library system. Finally, an inservice training program will be held to instruct other educators how to use handicapped employees as career role models and how to organize and use handicapped workers in their own communities.

NJ8413207.

Study of Work: Phase 2 (Continuation of NJ8313209).

Project Director: Mitchell, Nancy

Organization: Paterson School District 33 Church Street, Paterson, NJ 07505.

Telephone: (201) 278-5244.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SEMG 451.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $23,561.

Descriptors: Community-Resources. Coordinators. Disadvantaged. Experiential-Learning. Inservice-Teacher-Education. Technical-Assistance. Urban-Teaching. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Phase 2 addresses the training and technical assistance that teachers require to implement experience-based career education opportunities for urban students with socioeconomic, educational, and other handicaps. Such opportunities are designed to help these special learners make connections between skills acquired in classroom settings and skills applied in jobs. A community resource coordinator will be hired to coordinate teacher training on the three program levels: infusion of work as a topic of study into ongoing course content, classroom-based experiential learning about work roles, and community-based experiential learning. The coordinator also will expand opportunities for technical assistance to teachers through teacher coaching procedures already in place, provide resources for both classroom- and community-based experiential learning, compile information and experiences into a handbook, and provide for ongoing dissemination through regularly published newsletters.

NJ8413208.

English as a Second Language, Basic Skills, and Careers Program.

Project Director: Kodgis, Damian

Organization: Atlantic County College Mays Landing, NJ 08330-9888.

Telephone: (609) 343-5775.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: 84000441.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $22,952.

Descriptors: Basic-Skills. Coping. Daily-Living-Skills. Displaced-Homemakers. English-Second-Language. Interpersonal-Competence. Job-Skills. Job-Training. Limited-English-Speaking. Program-Development. Social-Mobility. Underemployment. Unemployment.

Identifiers: State. Proposal.

A comprehensive program integrating basic and life coping skills with career training will be developed for underemployed and unemployed limited-English speakers. First, a process will be developed to identify entry-level careers and training programs in high demand, as well as basic and life coping skills and skills for moving upward socioeconomically that are necessary for those careers. An assessment instrument and curriculum that match identified specialized skills to identified career areas then will be developed using media support and instructional packets. Developed and implemented through coordination with intra-college programs, the public sector, and local businesses and industry, the program will be completed successfully by at least 50 percent of the recruited students. Program evaluation will occur through pre- and posttesting of participating students, input from instructors and students concerning program effectiveness, and external and internal evaluations. The program package then will be disseminated to adult education and secondary school programs via workshops.

NJ8413209.

Entrepreneurship Training.

Project Director: Walsh, R.

Organization: Mercer County Community College 1200 Old Trenton Road, Trenton, NJ 08690.

Telephone: (609) 586-4800.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: 84000500; PN: SEMG 454.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $21,119.

Descriptors: Entrepreneurship. High-School-Seniors. Learning-Modules. Mentors.

Identifiers: State. Proposal.

Twenty-four seniors at Mercer County Area Vocational-Technical School will be enrolled in an entrepreneurship training twenty-seven-hour project conducted as follows: three-hour instructional sessions and a meeting once a month for nine months. Students will be provided with trade-specific entrepreneurship training modules in the following areas: air conditioning and refrigeration, auto/truck mechanic, cosmetology, building (construction), electrical occupations, welding, and electronic servicing. All students will be matched with a SCORE volunteer mentor. Also, at least 80 percent of the students will demonstrate proficiency in pertinent subject matter.

NJ8413210.

Horticulture Training.

Project Director: Crespy, Marilyn

Organization: Department of Human Services Bureau of Day Training, Trenton, NJ 08625.

Telephone: (201) 689-4650.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: 84-000442; PN: SEMG 408.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,989.

Descriptors: Community-Involvement. Disabilities. Horticulture. Job-Training. Program-Development. Work-Experience.

Identifiers: State. Proposal. Work Habits.

Handicapped adults will develop specific gardening skills, improve their work habits, and enhance positive attitudes toward themselves and others through a year round program of instruction with a variety of work experiences in the community. The program will feature extension of training opportunities into the community rather than sheltered workshops. The gardening program will be expanded, and greenhouse experience with plants will be provided during the winter months.

NJ8413211.

Horticulture Opens Pathways to Employment.

Project Director: Gaskill, Craig

Organization: Archway School 197 Jackson Road, Atco, NJ 08004.

Telephone: (609) 767-5751.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: 84000504; PN: SEMG 425.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $23,795.

Descriptors: Emotional-Disturbances., Grounds-Keepers. Horticulture. Low-Achievement. Multiple-Disabilities. Program-Development.

Identifiers: State. Proposal.

The training program with on-site experiences will be offered five days per week for multiply handicapped and emotionally disturbed students, ages 14-21, who function very low academically. Special aides with at least six years of experience in horticulture maintenance will work with Archway's teachers to provide supportive work experience with the on-site training. The curriculum will be limited to essential skills to allow for extensive practice. Designed to broaden occupational aspirations and opportunities for handicapped youth, the project also will develop training opportunities in a sparsely populated rural area.

Curriculum Development (Sec. 133)

NJ8413301.

The Impaired Nurse: Development of Curriculum and Related Teaching Materials.

Project Director: Stahl, Linda

Organization: Morris County Vocational School District 400 East Main Street, Denville, NJ 07834.

Telephone: (201) 627-4600.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 404.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,450.

Descriptors: Adult-Students. Alcohol-Education. Drug-Education. Minicourses. Nurses. Nursing-Education. Practical-Nursing.

Identifiers: State. Proposal. Alcohol Abuse.

Curriculum for a minicourse will be developed for nurses who abuse drug and alcohol use. In addition to the curriculum, the following products will be prepared for dissemination to licensed practical nurse (LPN) vocational programs and to the New Jersey Board of Nursng: (1) a list of strategies for integrating information about the impaired nurse into existing units of LPN curriculum; (2) a bibliography of texts, resource materials, and teaching materials for further research; (3) a listing by counties of agencies which offer assistance to the impaired nurse; and (4) a self-help booklet aimed at the student nurse which lists warning signs, procedures to follow when seeking help, and other pertinent information.

NJ8413302.

Instrumental Analysis in Chemical Laboratory Technology.

Project Director: Alfare, C.

Organization: Mercer County Community College 1200 Old Trenton Road, Trenton, NJ 08690.

Telephone: (609) 586-4800.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 416.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,478.

Descriptors: Chemical-Analysis. Computer-Oriented-Programs. Course-Descriptions. Credit-Courses. Evaluation-Methods. Laboratory-Equipment. Laboratory-Procedures. Microcomputers. Student-Recruitment. Technological-Advancement.

Identifiers: State. Proposal. *Instrumental Analysis. Hands On Experience.

Microprocessors will be used in an existing laboratory course, and two new laboratory courses, designed to combine microcomputer use with modern instrumental analysis equipment, will be offered. Twenty students will be enrolled in each new course. The three-credit analytical techniques course will teach students how to separate and quantitatively determine substances, including precipitation, filtration, chromatographic methods, and statistical treatment of data. Students also will learn how to maintain a laboratory notebook and how to use high tech equipment such as high sensitivity balances, automatic titrators, microprocessor chart recorders, high pressure liquid chromatographs, potentiometers, and polarographs. The three-credit instrumental analysis course will teach students the principles and application of some instrumental methods of chemical analysis. Students will learn how to use and treat data on such high tech instruments as gas chromatographs, high pressure liquid chromatographs, atomic absorption spectrometers, mass spectrometers, ultraviolet and visible spectrophotometers, infrared and Raman spectrophotometers, nuclear magnetic resonance spectrometers, and thermal analysis. Hands-on computer use will be provided in both new courses. Following advisory committee and curriculum committee approval of the course outlines developed, project staff will purchase, install, and test required instrumental and computer equipment and software. Computer instructor modules also will be designed for the two new courses.

NJ8413303.

Computer Graphics.

Project Director: Hansen, A. Z.

Organization: Mercer County Community College 1200 Old Trenton Road, Trenton, NJ 08690.

Telephone: (609) 586-4800.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 417.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $13,084.

Descriptors: Computer-Graphics. Computer-Literacy. Course-Descriptions. Introductory-Courses.

Identifiers: State. Proposal.

An introductory computer literacy course, using computer graphics manipulation, will be designed for students in at least five vocational education programs. A pilot section will be offered to at least twenty-five students representing at least three of the following programs: data processing, drafting and design technology, mechanical engineering technology, general business, advertising design, and telecommunications. Classroom instruction and interactive graphics will be provided on at least two systems of computer graphics compatible with existing computing equipment (Apple/Franklin and VAX 780). Additionally, input for future planning will be acquired from area employers concerning their needs for employees with expertise in computer graphics. Hardware and software will be purchased, and a course outline will be developed, including learning objectives, for fifteen weekly units. Following approval, project staff will develop laboratory or demonstration exercises for all major course units.

NJ8413304.

Understanding Robotics.

Project Director: Robinson, S.

Organization: Montclair Board of Education 22 Valley Road, Montclair, NJ 07042.

Telephone: (201) 783-4000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 423.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,880.

Descriptors: Curriculum. Learning-Activities. Robotics. Technological-Advancement. Units-of-Study.

Identifiers: State. Proposal.

A two-year course of study in robotics will be developed to provide secondary students with career opportunities and experiences in the practical application of mathematics and science concepts that could motivate students' interest in those areas. Curriculum objectives will be derived from building a robot from a reusable kit to be purchased. A teacher-developer will receive a stipend to review literature, identify existing programs, and develop the curriculum.

NJ8413305.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.

Project Director: Cusack, Kay

Organization: Marie H. Katzenbach School for the Deaf 320 Sullivan Way, West Trenton, NJ 08628.

Telephone: (609) 883-2600.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 424.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,000.

Descriptors: Adolescents. Daily-Living-Skills. Deafness. Instructional-Materials. Interpersonal-Competence. Job-Skills. Material-Development. Multiple-Disabilities. Skill-Development.

Identifiers: State. Proposal.

Teaching materials will be prepared to correspond with a specially designed curriculum to meet the needs of deaf adolescent students who have insufficient daily living, vocational, and social skills to succeed in the present vocational program. Skill levels will be raised enough so that the student may enter the present vocational program or be placed in a sheltered workshop. Two Katzenbach teachers will write needed strands of the curriculum and develop supporting teaching materials. This model text of a remedial/transitional program addresses (1) the development and dissemination of vocational education materials for handicapped persons and persons of limited English-speaking ability; (2) improvement of the management of curriculum materials in a state-managed program through an individualized and competency-based instructional program; and (3) the development, adaptation, and/or modification of existing vocational curricula and instructional materials to enable their use with multiply handicapped deaf individuals.

NJ8413306.

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).

Project Director: Grieco, John.

Organization: Bergen County Vocational School 200 Hackensack Avenue, Hackensack, NJ 07601.

Telephone: (201) 343-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 427.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,900.

Descriptors: Computer-Assisted-Instruction. Computer-Graphics. Computer-Software. Man-Machine-Systems. Material-Development. Numerical-Control. Program-Development. Programing. Technical-Mathematics.

Identifiers: State. Proposal. *Computer Aided Design. *Computer Aided Manufacturing. *Hands On Experience.

A comprehensive hands-on curriculum will be developed for secondary students, and an advanced program will be developed for adults in the trades extension courses. Curriculum material will be developed in technical mathematics, computer graphics, computer numerical control (CNC) programming, and equipment function and operation, using a Bridgeport vertical miller with a Series 1 computer CNC and a Daewoo turret lathe with a Purma 10 CNC system as basic equipment. Integration of the CNC equipment will be provided for a computer-aided design system so that the students can experience an interactive design process. Programs selected or developed to help maximize CAD/CAM interface will be written at three levels: (1) menu driven instructions for students with limited mathematics ability, (2) machine language G code instruction, and (3) high level language for advanced students. A state-of-the-art graphics system will be specified, and entry and exit level criteria for students will be developed. Finally, selected teaching staff will be trained on the computer-oriented equipment and prepared for instructing the new program.

NJ8413307.

Auto and Electrical Trades Instructional Materials Development.

Project Director: Felice, Frederick W.

Organization: Ocean County Vocational-Technical School Old Freehold and Bey Lea Roads, Toms River, NJ 08753.

Telephone: (201) 349-8425.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 425.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $12,095.

Descriptors: Audiotape-Cassettes. Auto-Body-Repairers. Auto-Mechanics. Electricians. Filmstrips. Instructional-Materials. Material-Development.

Identifiers: State. Proposal.

Support materials will be developed for instructional units in secondary level auto mechanics, auto body, and electrical trades programs. Materials will be developed for five units each in auto mechanics and auto body programs and for ten units in the electrical trades programs. Audiovisual methods (filmstrip and cassette) will be used to improve learning experiences in this self-paced modular program, providing immediate reinforcement for students while reviewing or learning new skill concepts. Printed scripts will accompany each filmstrip/cassette packet to aid the instructor and allow students more flexibility for individualized assistance.

NJ8413308.

Dental Hygiene Instructional Videotape Development.

Project Director: Buscemi, Elaine.

Organization: Middlesex County College Woodbridge Avenue, Edison, NJ 08808.

Telephone: (201) 548-6000.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 431.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $12,540.

Descriptors: Dental-Health. Dental-Hygienists. Instructional-Materials. Material-Development. Videotape-Recordings.

Identifiers: State. Proposal.

Six videotapes will be produced for the preventive oral health services and dental materials courses in the dental auxiliary education program for use by students, faculty, practitioners, and the public. Use of the videotapes will facilitate classroom instruction through demonstration of various laboratory and clinical procedures and in refresher and continuing education courses. The videotapes also will be a resource for independent study for students and practitioners needing reinforcement and review and will be distributed to interested institutions. With adaptation, the videotapes will be used to educate the general public in oral health care. First, project staff will develop scripts with content input from practitioners and advisory committee members. The videotapes will be made in the college's clinical laboratory facilities using on-campus television production facilities, then previewed by the advisory committee before final editing and reproduction. A final report will be delivered.

NJ8413309.

Relocate for Better Jobs.

Project Director: Morella, Victor C.

Organization: Salem County Board for Vocational Education RD 2, Box 350, Woodstown, NJ 08098.

Telephone: (609) 769-0101.

Sponsoring Agency: New Jersey State Dept. of Education, Trenton.

Contract/Control No.: CN: SCDG 432.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $8,500.

Descriptors: Graduates. Guidelines. Guides. Job-Applicants. Job-Search-Methods. Material-Development. Relocation. Resource-Materials.

Identifiers: State. Proposal.

Informational packets concerning relocation and job opportunities in different localities will be developed encouraging vocational-technical program graduates to seek positions outside of their areas of residence. These guides will contain transportation schedules, toll and mileage information, charts, maps, and written directions on how to acquire information about out-of-state and out-of-area jobs; a listing of job service agencies and employers will follow. In addition, guidelines will be provided for evaluating whether or not it is feasible to relocate, along with a career planning guide.

New Mexico

Research (Sec. 131)

NM8413101.
Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation).
Project Director: Cooper, Lloyd G.
Organization: New Mexico State University Department of Education, Management and Development, Box 3N, Las Cruces, NM 88003.
Telephone: (505) 646-4026.
Sponsoring Agency: New Mexico State Dept. of Education, Santa Fe.
Contract/Control No.: CN: 951.6.4-01-12.461; PN: 964.0.4-00-12.461.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $107,927.
Descriptors: Computer-Oriented-Programs. Data-Collection. Educational-Administration. Information-Dissemination. Information-Systems. Management-Systems.
Identifiers: State. Proposal.

An MIS/VTIS project will be established to collect, process, and disseminate information for the division's postsecondary file to increase its value as a management tool. Additional analysis will include an expanded review of enrollments and programs, the relationship between programs and occupational needs, and cost-benefit analysis of programs. Support functions such as facilities, equipment, and travel will be provided.

Exemplary and Innovative (Sec. 132)

NM8413201.
Child Development Program.
Project Director: Wilson, Don
Organization: New Mexico Junior College Lovington Highway, Hobbs, NM 88240.
Telephone: (505) 392-4510.
Sponsoring Agency: New Mexico State Dept. of Education, Santa Fe.
Contract/Control No.: CN: 951.6.4-02-11.853, 954.3.4-11-11-853.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $23,219.
Descriptors: Child-Caregivers. Child-Care-Occupations. Class-Activities. Experiential-Learning. Paraprofessional-Personnel. Program-Development.
Identifiers: State. Proposal.

Classroom instruction will be combined with laboratory experiences to provide a specialized program for development of skills for individuals planning careers in child development on the paraprofessional level: in day care centers, as teachers' aides, or in prekindergartens. An advisory board will be organized, the building will be remodeled, course content will be developed, and equipment will be purchased. Instructors will be employed and approximately thirty students recruited and enrolled. Program effectiveness will be evaluated by job placement success of program completers. Quarterly progress reports will be delivered.

Curriculum Development (Sec. 133)

NM8413301.
Vocational Information and Program Services (VIPS).
Project Director: Suarez, Omero
Organization: University of New Mexico—Valencia Campus 351 Rio Communities Boulevard, Belen, NM 87002.
Telephone: (505) 864-7741.
Sponsoring Agency: New Mexico State Dept. of Education, Santa Fe.
Contract/Control No.: CN: 951.6.4-03-12.1123, 954.6.4-11-12.1123, 956.1.4-00-12.1123.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $60,000.
Descriptors: Instructional-Materials. Mobile-Educational-Services. Resource-Materials. Rural-Schools. Technical-Assistance.
Identifiers: State. Proposal.

Services and resources including supplemental vocational materials and demonstration equipment will be provided via mobile units to vocational teachers in at least thirty school districts or institutions in rural New Mexico. Two coordinators will provide professional contact and assistance in developing materials that meet needs of particular students or community programs. Detailed records will be kept of materials loaned and their uses. A bibliography of free loan materials and a cost analysis will be delivered, as well as quarterly and final reports.

NM8413302.
Industrial Arts Communications Curriculum Guide Workshop.
Project Director: Cunico, Gerald E.
Organization: University of New Mexico College of Education, Department of Secondary and Adult Teacher Education, Industrial Education Program, Albuquerque, NM 87131.
Telephone: (505) 277-3934.
Sponsoring Agency: New Mexico State Dept. of Education, Santa Fe.
Contract/Control No.: CN: 951.6.4-03-12.272.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $5,062.
Descriptors: Communication-Thought-Transfer. Program-Implementation. Teacher-Workshops. Teaching-Guides.
Identifiers: State. Proposal.

The guide and related instructional strategies will be presented to selected industrial arts teachers, recruited by mail, to enable them to develop skill in presenting the concepts of communication. The communications curriculum approach will be complemented through use of the state guide. Communication concepts will be presented by lecture, demonstration, discussion, and visual aids; participants will be involved in laboratory activities. Participants will receive recertification credit, if desired; complete and submit a workshop evaluation; and develop implementation projects for their schools. Materials developed during the workshop will be reproduced and distributed to all participants. Quarterly and final reports will be delivered.

NM8413303.
Vocational Education Consultants.
Project Director: Milanovich, Norma
Organization: University of New Mexico Department of Secondary and Adult Teacher Education, Vocational Education Consultants Program, Albuquerque, NM 87131.
Telephone: (505) 277-2411.
Sponsoring Agency: New Mexico State Dept. of Education, Santa Fe.
Contract/Control No.: CN: 951.6.3-03-12.276, 956.2.3-00-12.276.
Funding Period: Start Date 01 Jul 83; End Date 30 Dec 83.
Fiscal Year Funding: $2,000.
Descriptors: Consultants. Home-Economics. Occupational-Home-Economics. Publicity. State-Programs.
Identifiers: State. Proposal.

Public relations materials will be developed for use statewide by home economics teachers and the home economics advisory committee. The twenty-minute speaker's presentation produced will be used for developing community/public awareness about vocational home economics. Project staff will organize materials collected and compile and develop curriculum materials and resources for Nutrition for Athletes, to be disseminated by ENMU Vocational Dissemination Center. Additionally, staff will coordinate the speaker and participants for Teen Pregnancy Communication Workshop, producing a flyer, mailout to teachers, and workshop evaluation. Staff also will help develop a home economics needs assessment and methods for teacher utilization, for which a teaching guide will be produced. A final report will be delivered.

New York

Research (Sec. 131)

NY8413101.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education.

Project Director: Fadale, LaVerna M.

Organization: State University of New York at Albany Two-Year College Development Center, 135 Western Avenue, Draper 306, Albany, NY 12222.

Telephone: (518) 455-6271.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-849378.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $40,725.

Descriptors: Developmental-Programs. Educational-Development. Evaluation-Methods. Models. Program-Effectiveness. Program-Evaluation.

Identifiers: State. Proposal.

In this second phase of a project, phase 1 findings will be synthesized into evaluation paradigms for field tests at local colleges. The effectiveness of these paradigms then will be assessed. Technical assistance will be provided to colleges agreeing to engage in local evaluation paradigm applications. In-depth work at selected sites and survey research with a wider number of colleges will take place. The success rate of developmental programs statewide will be estimated using the paradigms and determining the factors associated with most useful evaluation efforts. Data will be collected via rating forms, interviews, and observations. Evaluation summary reports will be performed for participating colleges.

NY8413102.

Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.

Project Director: Winter, Gene M.

Organization: Two-Year College Development Center State University of New York—Albany, 135 Western Avenue, Draper 306, Albany, NY 12222.

Telephone: (518) 455-6271.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-84-9379GPS.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $31,646.

Descriptors: Dropouts. Followup-Studies. Migration. Mobility. Occupational-Mobility.

Identifiers: State. Proposal.

A replication of mobility trends of completers by program, discipline specialty, and type of college will be produced. A profile of the occupational status and placement mobility of program leavers will be drawn, as well as an estimate of the permanence and factors active in completers who are more geographically mobile. Follow-up studies will be conducted with program leavers and relocators. The survey of completer mobility trends completed in Phase 1 will be replicated with a representative sample of colleges to determine the generalizability of the findings.

NY8413103.

Affective Work Competencies in Postsecondary Occupational Education: A Feasibility Study.

Project Director: Fadale, LaVerna M.

Organization: State University of New York—Albany Two-Year College Development Center, 135 Western Avenue, Draper 306, Albany, NY 12222.

Telephone: (518) 455-6271.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-84-9380 GPS.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $24,977.

Descriptors: Affective-Measures. Technical-Occupations. Work-Attitudes.

Identifiers: State. Proposal.

This feasibility study is designed to identify and measure affective work competencies associated with selected technical level positions within engineering and business and commerce technologies. Affective work competencies are defined as those attitudes, values, habits, or socio-psychological characteristics required for successful employment and demonstrated by preferable work behaviors. A purposive sample of not more than three major employers and not more than six colleges having a significant placement rate at the major employers will be selected. An advisory committee drawn from college and employer staff will work cooperatively with project staff in identifying graduates and employees for the sample. Validated competencies and a measurement tool from a previous secondary research project will be adapted to the postsecondary level. This instrument will be used to collect data from 120 employed graduates and their supervisors. Statistical treatment will establish internal consistency and analysis of a qualitative basis for decisions regarding broader application of the strategy. Products will include an instrument to assess affective work characteristics and competencies, a research report, final, and interim reportS.

NY8413104.

Showcase '84: Statewide Dissemination and Utilization for Postsecondary Occupational Education.

Project Director: Winter, Gene M.

Organization: State University of New York—Albany Two-Year College Development Center, 135 Western Avenue, Draper 306, Albany, NY 12222.

Telephone: (518) 455-6271.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-84-9381 GPS.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $17,394.

Descriptors: Demonstration-Programs. Information-Dissemination. Publicity.

Identifiers: State. Proposal. *Impact Evaluation.

Through a college-based nomination process, about forty local projects, programs, or products will be identified for consideration as Showcase '84 projects. About twenty percent of the nominees will be selected. All nominated projects will be disseminated and linkages for use fostered. Adaptation and use efforts will be received, reviewed, and supported. The current status or outcomes of local project adaptations that grew from Showcase '80 and '82 project years will be determined and factors associated with the continuing value of these projects will be identified. Nominees will be solicited statewide, judges selected, and a judging process determined. Products will include a publication of nominees, individual fliers on each project, and a final report.

NY8413105.

Continuing Research in Determining Economic Returns on Investment in Selected Occupational Education Programs at Postsecondary Institutions.

Project Director: Mills, Edward

Organization: Monroe Community College 1000 East Henrietta Road, Rochester, NY 14623.

Telephone: (716) 424-5200.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-84-9375.

Funding Period: Start Date 01 Sep 83; End Date 31 Aug 84.

Fiscal Year Funding: $52,392.

Descriptors: Educational-Economics. Productivity.

Identifiers: State. Proposal.

Quantitative and qualitative data will be gathered from a statewide sample of New York employers and two-year colleges to identify variables which explain the variance in the level of return from investment in postsecondary education and to develop strategies which, if implemented, will help maximize the return from such investments. The second-year research will be based on open-ended in-depth interviews with a subset of the employers and schools identified in the first year of study as either high or low yield in terms of returns on investment. Study questions will focus on identifying those factors which most affect the economic returns. Strategies for maximizing yield in other locations will be developed that include cost-effectiveness evaluations. A final report will be delivered.

NY8413106.

Occupational Education Programs at Community Colleges of the City University of New York (Continuation).

Project Director: Kaufman, Barry; Murtha, James.

Organization: City University of New York Office of Institutional Research and Analysis, 535 East Eightieth Street, New York, NY 10021.

Sponsoring Agency: New York State Education Department, Albany.

Contract/Control No.: CN: 58-84-9376.

Funding Period: Start Date 01 Sep 83; End Date 31 Aug 84.

Fiscal Year Funding: $68,903.

Descriptors: Data-Analysis. Educational-Administration. Employment-Patterns. Program-Administration. Trend-Analysis.

Identifiers: State. Proposal.

Computer analysis, surveys, and quantitative analysis will be used to extend analytical efforts in trend reports and career development to improve data reporting procedures for City University colleges and to better understand occupational education and labor market dynamics. OEDS enrollment, completer, and leaver reports; an analysis of program trends; and a career development report will be delivered.

North Carolina

Research (Sec. 131)

NC8413101.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System.

Project Director: Petty, Norman H.

Organization: Central Piedmont Community College PO Box 35009, Charlotte, NC 28235.

Telephone: (704) 373-6633.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84,85-C Piedmont.

Funding Period: Start Date 01 Jun 84; End Date 30 Apr 85.

Fiscal Year Funding: $11,871.

Descriptors: Admission-Criteria. Allied-Health-Occupations. Allied-Health-Occupations-Education. Community-Colleges. Counseling-Techniques. Job-Placement. Models.

Identifiers: State. Proposal.

A study will be conducted of current criteria for admission to health careers programs in community colleges, and a model will be designed for selection of admission to these programs. This will upgrade existing advising and placement methods, thereby reducing the attrition rate in the system's health careers curricula. Skills needed for completion of the health careers program will be determined along with the currently accepted admission criteria. Appropriate testing materials will be selected. Staff will be trained to administer tests and collect data. A sample population of students will be tested and the data collected and analyzed. The project will be evaluated and the results disseminated through inservice and regional workshops.

NC8413102.

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring.

Project Director: Lochra, Albert P.

Organization: Guilford Technical Community College PO Box 309, Jamestown, NC 27282.

Telephone: (919) 292-1101.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84,85-Guilford.

Funding Period: Start Date 01 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $16,890.

Descriptors: Community-Colleges. Data-Analysis. Evaluation-Methods. Job-Development. Job-Placement. Job-Skills. Models.

Identifiers: State. Proposal.

A model for a centralized job development, placement, and data monitoring unit will be developed that can be duplicated in other community colleges. An evaluation model will be developed to determine the success of the community college system in providing marketable skills for early leavers. Assistance will be provided in the development of institutional surveys related to curriculum, jobs, and placement. Institution data related to jobs and placements will be compiled and analyzed. Institutional departments will be assisted in evaluating program effectiveness.

NC8413103.

Development of a Model for Recruiting the New Community College Student.

Project Director: Boyd, Edgar L.

Organization: Pitt Community College PO Drawer 7007, Greenville, NC 2783-.

Telephone: (919) 756-3130.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84,85-Pitt.

Funding Period: Start Date 01 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $15,354.

Descriptors: Community-Colleges. Cost-Effectiveness. Marketing. Models. Resource-Allocation. Student-Recruitment.

Identifiers: State. Proposal.

A community college student recruitment model will be constructed that will apply recruiting dollars and resources in a manner more in consonance with the new and emerging demographics and occupational character of the community college student population in North Carolina. Current recruiting practices will be analyzed, a new plan formulated, and new strategies developed and implemented. Target populations will be identified and a marketing system devised to reach these populations. A plan will be developed to ensure that both fiscal and personnel recruitment resources are used efficiently.

NC8413104.

Development of Equipment Simulations for Community College Vocational Curricula.

Project Director: Smith, Merrill F.

Organization: Randolph Technical College PO Box 1009, Asheboro, NC 27203.

Telephone: (919) 629-1471.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84,85-Randolph.

Funding Period: Start Date 01 Nov 83; End Date 28 Feb 85.

Fiscal Year Funding: $18,310.

Descriptors: Computer-Programs. Equipment. Feasibility-Studies. Simulation. Videotape-Cassettes.

Identifiers: State. Proposal.

The feasibility of developing simulations of equipment through videotapes and microcomputers will be studied as an alternative to purchasing expensive, up-to-date equipment. Simulations of a computerized lathe and a computerized carburetion system will be developed by an instructional developer working with persons knowledgeable of the equipment, the college's audiovisual coordinator, involved faculty, computer programmers, and other experts. Students will be evaluated to determine whether or not knowledge learned with the simulations can be transferred to working with the actual equipment. The cost effectiveness of simulations will be determined, and research findings will be disseminated throughout the community college system via three workshops. A final report will be delivered.

NC8413105.

Quality Circles Training for Community College Educators and Students and the Businesses They Serve.

Project Director: McIlwain, Doris W.

Organization: Central Piedmont Community College PO Box 35009, Charlotte, NC 28235.

Telephone: (704) 373-6703.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84,85-C Piedmont.

Funding Period: Start Date 01 Sep 83; End Date 31 Aug 84.

Fiscal Year Funding: $25,293.

Descriptors: Community-Colleges. Internship-Programs. Leadership-Training. Management-Development. Orientation. School-Business-Relationship. Training-Methods. Workshops.

Identifiers: State. Proposal. *Quality Circles.

Quality circle training will be provided for personnel in Community College System institutions, business and industry personnel, and selected students. Community college personnel will attend three one-day orientation sessions and three intensive (three-four day) workshops. Business and industry personnel will attend three one-day orientation sessions and two intensive workshops. Students who have shown interest in quality circles will attend a one- or two-day leader training workshop, will be exposed to quality circle management presentations, and will participate in short-term internships with quality circle programs in industry. A list of criteria will be used to evaluate the program. Information regarding the project will be disseminated via brochures, presentations and workshops, audiovisual programs, and consultation upon request.

NC8413106.

Development and Validation of a Comprehensive Cost Allocation Model for Occupational Programs in the North Carolina Community College System.

Project Director: Campbell, Dale F.

Organization: North Carolina State University 310 Poe Hall, Box 5504, Raleigh, NC 27650.

Telephone: (919) 737-3591.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84.85-NCSU, ACCE, 2.

Funding Period: Start Date 15 Oct 83; End Date 14 Oct 84.

Fiscal Year Funding: $16,932.

Descriptors: Community-Colleges. Cost-Effectiveness. Curriculum-Development. Models.

Identifiers: State. Proposal.

A comprehensive cost allocation model for occupational programs within North Carolina community colleges will be developed and validated. Various factors will be identified that contribute to the direct cost of curriculum programs. The identified factors will be isolated, collected, and analyzed. An instrument will be developed to report the data. A fiscal handbook will be produced to describe the procedure, methods, and actions required for effecting an institutional and analysis project for curriculum programs. This project will result in increased cost effectiveness of institutional services.

NC8413107.

Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal.

Project Director: Campbell, Dale F.

Organization: North Carolina State University 310 Poe Hall, Box 5504, Raleigh, NC 27650.

Telephone: (919) 737-3591.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Contract/Control No.: CN: 090883-84.85-NCSU, ACCE, 1.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,209.

Descriptors: College-Presidents. Community-Colleges. Institutes-Training-Programs. Leadership-Training. Management-Development. Pilot-Projects.

Identifiers: State. Proposal.

A pilot community college presidents institute will be planned, conducted, and evaluated as a model for leadership renewal. Appropriate segments of the institute will be recorded and disseminated and made available to enhance leadership development of mid-level management of the community and technical colleges. A timetable, curriculum, and resource persons will be scheduled and participants invited. A summative evaluation will be conducted. A preliminary report and script for the slide/tape presentation will be drafted. A final report will be delivered.

NC8413108.

Vocational Education and Math: Curriculum Alignment Project.

Project Director: Smith, Samuel S.

Organization: Haywood County Schools 1615 North Main Street, Waynesville, NC 28786.

Telephone: (704) 456-8613.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,073.

Descriptors: Charts. Competence. Competency-Based-Education. Curriculum-Research. Horizontal-Organization. Mathematics-Curriculum. Mathematics-Education. Mathematics-Instruction. Mathematics-Skills.

Identifiers: State. Proposal.

Vocational education courses which require a substantial amount of mathematics will be identified and specific mathematics competencies identified. A curriculum alignment chart will be created for each course containing the relevant mathematics competencies, comparable vocational terminology, and the parallel vocational competency. Charts will be critiqued by vocational and science personnel and utilized in the classroom. A formal evaluation will be designed to measure the quality and achievement of project activities. Procedures manuals defining the process for developing the charts and describing their utilization will be developed.

NC8413109.

Vocational Education and Science: Curriculum Alignment Project.

Project Director: Smith, Samuel S.

Organization: Haywood County Schools 1615 North Main Street, Waynesville, NC 28786.

Telephone: (704) 456-8613.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,073.

Descriptors: Charts. Competence. Competency-Based-Education. Curriculum-Research. Horizontal-Organization. Science-Curriculum. Science-Education. Science-Instruction. Sciences.

Identifiers: State. Proposal.

Vocational education courses which require a substantial amount of science will be identified and specific science competencies identified. A curriculum alignment chart will be created for each course containing the relevant science competencies, comparable vocational terminology, and the parallel vocational competency. Charts will be critiqued by vocational and science personnel and utilized in the classroom. A formal evaluation will be designed to measure the quality and achievement of project activities. Procedures manuals defining the process of developing the charts and describing their utilization will be developed.

NC8413110.

Math Competencies Taught in Secondary Vocational Education.

Project Director: Rosenfeld, Vila M.; Holsey, Lilla G.

Organization: East Carolina University Department of Home Economics Education, School of Home Economics, Greenville, NC 27834.

Telephone: (919) 757-6903.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,699.

Descriptors: Competence. Competency-Based-Education. Curriculum-Research. Mathematics. Mathematics-Curriculum. Mathematics-Education. Mathematics-Instruction. Mathematics-Skills. Skill-Development. Teaching-Methods.

Identifiers: State. Proposal.

Three vocational programs covering a substantial amount of mathematics content will be identified and the mathematics competencies identified. Subcompetencies will be developed, reflecting the skills implied in identified goals and performance indicators, and validated. A training and dissemination paper will be written to assist potential users. Vocational education personnel will be selected to be trained in using the materials and methods.

NC8413111.

Science Competencies Taught in Secondary Vocational Education.

Project Director: Holsey, Lilla G.; Rosenfeld, Vila M.

Organization: East Carolina University Department of Home Economics Education, School of Home Economics, Greenville, NC 27834.

Telephone: (919) 757-6903.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Descriptors: Competence. Competency-Based-Education. Curriculum-Research. Science-Curriculum. Science-Education. Science-Instruction. Sciences. Skill-Development. Teaching-Methods.

Identifiers: State. Proposal.

Three vocational programs covering a substantial amount of science content will be identified and the science competencies identified.

Subcompetencies will be developed, reflecting the skills implied in identified goals and performance indicators, and validated. A training and dissemination paper will be written to assist potential users. Vocational education personnel will be selected to be trained in using the materials and methods.

NC8413112.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses.

Project Director: Jewell, Larry R.

Organization: North Carolina State University Department of Occupational Education, Raleigh, NC 27650.

Telephone: (919) 737-2234.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 15 Dec 83; End Date 30 Jun 84.

Descriptors: Agricultural-Education. Curriculum-Research. Learning-Modules. Mathematics-Skills.

Identifiers: State. Proposal. *Prototypes. *Visual Translation.

Prototype supplemental prescriptive training modules will be developed for two vocational agriculture courses with substantial amounts of mathematics skills. Teacher panels will translate mathematics competency statements into terms compatible with competencies used in the courses. The modules will be tested by teachers, and teacher training sessions will be held. An attempt will be made to create a model for visual translation of mathematics skills across occupational families. A research report will be delivered.

NC8413113.

Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses.

Project Director: Clary, Joseph R.

Organization: North Carolina State University Department of Occupational Education, Raleigh, NC 27650.

Telephone: (919) 737-2234.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $18,409.

Descriptors: Curriculum-Research. Learning-Modules. Mathematics-Skills. Trade-and-Industrial-Education.

Identifiers: State. Proposal. *Prototypes. *Visual Translation.

Prototype supplemental prescriptive training modules will be developed for two trade and industrial education courses with substantial amounts of mathematics skills. Teacher panels will translate mathematics competency statements into terms compatible with terms used in the courses. The modules will be tested by teachers, and teacher training sessions will be held. An attempt will be made to create a model for visual translation of mathematics skills across occupational families. A research report will be delivered.

NC8413114.

Science Competencies of Health Occupations Courses.

Project Director: Davis, Judith A.

Organization: North Carolina State University Department of Occupational Education, Raleigh, NC 27650.

Telephone: (919) 737-2234.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 15 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $15,836.

Descriptors: Allied-Health-Occupations-Education. Competence. Competency-Based-Education. Learning-Modules. Material-Development. Science-Curriculum. Science-Education. Science-Instruction. Sciences. Skill-Development. Transfer-of-Training.

Identifiers: State. Proposal.

Health occupations courses requiring specific science competencies will be identified. Science skills in two courses will be identified and classified and analyzed for transferability between occupations. Prescriptions, training modules, and/or software units will be prepared to facilitate achievement in both health occupations and science courses. Training materials will be developed and workshops conducted to assist health occupations teachers to become competent to use the materials.

NC8413115.

An Identification of Science Competencies Taught in Secondary Vocational Agriculture.

Project Director: Moss, Jeffrey W.

Organization: North Carolina State University Department of Occupational Education, PO Box 5096, Raleigh, NC 27650.

Telephone: (919) 737-2234.

Sponsoring Agency: North Carolina State Board of Education, Raleigh.

Funding Period: Start Date 01 Jan 83; End Date 30 Jun 84.

Fiscal Year Funding: $16,210.

Descriptors: Agricultural-Education. Competence. Evaluative-Criteria. Natural-Sciences. Performance. Scientific-Concepts. Teaching-Guides.

Identifiers: State. Proposal.

Two vocational education programs or courses that teach, or for which students must know a substantial amount of science will be identified; science competencies taught in those programs also will be identified. Fifteen exemplary high school science teachers knowledgeable of science competency goals and fifteen exemplary vocational agriculture teachers knowledgeable of vocational education competency goals will be selected by their state administrative staffs for the study. Using two rounds to reach consensus, the science teachers will respond to survey instruments developed to identify relevant science competency goals and performance indicators for agriculture. The agriculture teachers then will review the identified relevant science competencies, translated into terms compatible with vocational education, to determine which competencies are implicit in vocational agriculture. Finally, a three-section handbook will be developed. Section 1 will report findings of previous research objectives, Section 2 will contain explanations of methods of cooperation among vocational agriculture and science teachers to facilitate the learning of science in agriculture, and Section 3 will contain an annotated bibliography of instructional materials. Others will be trained in use of the materials.

Ohio

Research (Sec. 131)

OH8413101.
Project TRADE: Teacher Retraining and Directed Exchange.
Project Director: Hollensen, B.
Organization: Coshocton County Joint Vocational School 23640 C. R. 202, Coshocton, OH 43812.
Telephone: (614) 622-0211.
Sponsoring Agency: Ohio State Dept. of Education, Columbus.
Contract/Control No.: CN: R-1-84.
Funding Period: Start Date 15 Sep 83; End Date 30 Jun 84.
Fiscal Year Funding: $4,000.
Descriptors: Cost-Effectiveness. Inservice-Teacher-Education. Retraining. School-Business-Relationship. Teacher-Exchange-Programs. Vocational-Education-Teachers.
Identifiers: State. Proposal.

A cost effective training program will be designed to retrain and update vocational instructors who have been out of their occupational field. Teachers will complete a twelve-week retraining program, and identified employees from business/industry will complete twelve-week teaching assignments through directed exchange in their areas of expertise. An inservice training package will be developed for use by other school districts. An explanatory slide/sound presentation also will be developed. A pre-post Likert scale, weekly self-appraisal forms, and project evaluation forms will be used to evaluate the program. An occupational task analysis training profile will list those tasks which need to be updated due to changes in technology. All participants will meet at the end of the project for a comprehensive, subjective evaluation.

OH8413102.
Coordination of Vocational and Academic Curricula.
Project Director: Frasier, James E.
Organization: Dayton Public Schools Patterson Cooperative High School, 348 West First Street, Dayton, OH 45402.
Telephone: (513) 262-3787.
Sponsoring Agency: Ohio State Dept. of Education, Columbus.
Contract/Control No.: PN: R-3-84.
Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.
Fiscal Year Funding: $5,550.
Descriptors: Academic-Education. Competence. Curriculum-Guides. Drafting. English. Mathematics. Science-Education. Skill-Development.
Identifiers: State. Proposal. *Cooperative Office Education. *Diversified Health Occupations.

Basic academic skill competencies at the secondary level will be improved through the development of academic subject curriculum guides designed by vocational and academic teachers. The articulated materials will involve the areas of drafting, Diversified Health Occupations, Cooperative Office Education, mathematics, science, and English. Staff inservice training sessions will be conducted to develop the guides. Pre- and post-testing of students field-testing the guides will occur in year two of the project. Guides will be reviewed by subject area specialists.

OH8413103.
Expanded FY 1984 Occupational Employment Statistics (OES) Research Project.
Project Director: Kelley, S. C.; And Others
Organization: The Ohio State University The Center for Human Resource Research, 5701 North High Street, Worthington, OH 43085.
Telephone: (614) 888-7309.
Sponsoring Agency: Ohio State Dept. of Education, Columbus.
Contract/Control No.: PN: R-4-84.
Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.
Fiscal Year Funding: $35,000.
Descriptors: Employment-Projections. Labor-Market. Occupational-Information. Research-Methodology.
Identifiers: State. Proposal.

The expanded project will improve the industry and occupational forecasting system in three ways. The Occupational Area-specific Staffing Information System (OASIS) will be tested to determine if a smaller survey sample could produce reliable substate occupational estimates. The Iowa Model of the OES type of agriculture/agribusiness survey will be evaluated to detemine if it improves employment projections sufficiently to justify costs. Finally, the analysis of critical employment sectors such as the durable goods industries will be deepened through the development of qualitative data and the extension of the quantitative data base to include demographic and economic characteristics of local labor markets and the market characteristics of selected industrial sectors. Reports of the OASIS tests, the agribusiness survey cost benefit analysis, and the critical sector analysis will be delivered.

Curriculum Development (Sec. 133)

OH8413301.
Time Allocation Study.
Project Director: Redick, Sharon
Organization: The Ohio State University 347 Campbell Hall, 1787 Neil Avenue, Columbus, OH 43210.
Telephone: (614) 422-4487.
Sponsoring Agency: Ohio State Dept. of Education, Columbus.
Contract/Control No.: CN: R-2-84.
Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.
Fiscal Year Funding: $4,985.
Descriptors: Educational-Research. Occupational-Home-Economics. Time-On-Task.
Identifiers: State. Proposal. *Impact Evaluation.

The impact of time allocation on achievement will be determined as measured by paper and pencil tests, performance of tasks, and time on task of handicapped students enrolled in community and home service programs. A quasi-experimental/control group design will be used, involving junior and senior special needs and regular students in classes in four sites in three school districts. Six instruments will be used to collect data—three will be selected, and three will be developed: standardized achievement test, selected task performance, time on task, student questionnaire, teacher questionnaire, and content analysis chart. Achievement of regular and handicapped students will be compared to determine whether amount of class time makes a significant difference.

OH8413302.
Principles of Technology.
Organization: Agency for Instructional Tech (AIT) 1111 West Seventeenth Street, PO Box A, Bloomington, IN 47402.
Telephone: (812) 339-2203.
Sponsoring Agency: Ohio State Dept. of Education, Columbus.
Contract/Control No.: CN: CU-1-84.
Funding Period: Start Date 01 Feb 84; End Date 01 Feb 86.
Fiscal Year Funding: $29,531.
Descriptors: Experiential-Learning. Laboratory-Experiments. Learning-Modules. Material-Development. Scientific-Concepts. Scientific-Principles. Teaching-Guides. Technical-Education. Technology. Videotape-Cassettes.
Identifiers: State. Proposal. *Hands On Learning.

Curriculum materials will be developed to provide hands-on learning experiences across mechanical, fluidal, electrical, and thermal systems. Laboratory experiences (156) will be developed for grades 11 and 12, and

500 minutes of instructional video presentations in technical concepts and principles also will be produced. Additionally, thirteen modules for video use will be provided, along with a printed teacher's guide. Information brochures and other promotional materials also will be produced. As a participant in the AIT consortium, Ohio will send representatives to at least two consortium meetings for planning, evaluation, and review.

Oklahoma

Research (Sec. 131)

OK8413101.
The Effectiveness of Competency Profiles.
Project Director: Frost, Donna
Organization: State Department of Vocational Technical Education 1500 West Seventh, Stillwater, OK 74074.
Telephone: (405) 377-2000.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK84 131 1 021.
Funding Period: Start Date 15 May 84; End Date 15 Sep 84.
Fiscal Year Funding: $3,000.
Descriptors: Comparative-Analysis. Competence. Employer-Attitudes. Instructional-Materials-Evaluation. Minimum-Competency-Testing. Profiles. School-Business-Relationship. Teacher-Attitudes. User-Satisfaction-Information.
Identifiers: State. Proposal.

In this master's degree study, evaluations of competency profiles will be obtained from instructors, business, and industry; areas of agreement about the evaluations between education and industry will be identified. Identified instructors in seven area vocational schools and one skill center and their program advisory committee members will be surveyed using an instrument developed to measure respondents' attitudes toward competency testing and competency profiles, as well as the perceived usefulness of the testing and profiles. The surveyer will meet with instructors at each site to administer the instrument; advisory committee members will be surveyed by mail. Descriptive statistics will be used to aggregate results, and chi-square techniques will be used to compare teacher results to industry results. A research report will be produced.

OK8413102.
A Study of Activities and Impact of Advisory Committees on Vocational Programs.
Project Director: Thomas, Tom
Organization: State Department of Vocational Technical Education 1500 West Seventh, Stillwater, OK 74074.
Telephone: (405) 377-2000.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK84 131 1 019.
Funding Period: Start Date 01 Apr 84; End Date 30 Sep 84.
Fiscal Year Funding: $15,000.
Descriptors: Advisory-Committees. Educational-Research. Use-Studies.
Identifiers: State. Proposal. *Impact Evaluation.

Current areas of advisory committee involvement in vocational programs and specific types of involvement will be identified, as well as areas in which advisory committees should be involved. The extent of the impact of advisory committee activities on programs also will be identified. Conclusions drawn about committee activities that result in the greatest impact on programs will form the basis for recommendations that will be made for improved use of committees. A random sample of secondary level programs will be selected and stratified by type of program to obtain a 95 percent confidence level sample. An instrument then will be developed and administered to the advisory committee chairman, one advisory committee member, the instructor, and the school administrator of each program in the sample. Primary analysis will use descriptive statistics of the results of the survey of committee members and chairmen. Committee survey results will be compared with survey results of instructors and administrators in secondary analyses. A final report will be disseminated to state program supervisors, planners, and evaluators and to the Educational Resources Information Center (ERIC) Clearinghouse. In addition, an executive summary will be distributed to each secondary level program instructor and administrator.

OK8413103.
Nurse Staffing Patterns and Implications for Training of Practical Nurses.
Project Director: Frazier, Don; McSwain, Janis
Organization: State Department of Vocational Technical Education 1500 West Seventh, Stillwater, OK 74074.
Telephone: (405) 377-2000.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK84 131 1 020.
Funding Period: Start Date 15 Apr 84; End Date 15 Oct 84.
Fiscal Year Funding: $10,000.
Descriptors: Educational-Research. Employment-Opportunities. Home-Health-Aides. Labor-Needs. Nurses. Nurses-Aids. Nursing-Education. Practical-Nursing.
Identifiers: State. Proposal. *Diagnostically Related Groups. American Nursing Association.

Current staffing patterns of nursing staff from aide to Bachelor of Arts Registered Nurse will be identified, as well as perceived changes in staffing as a direct result of diagnostically related groups and training proposals of the American Nursing Association. Major nursing staff weaknesses which need to be addressed in training programs also will be identified. A random sample of hospitals, home health agencies, and long term care facilities will be surveyed to obtain the necessary data. Results will be used to project future nursing staff needs by type of care facility and by type of training. Descriptive data will be aggregated to indicate desired changes in training emphasis, particularly at the practical nurse level. The final report will be distributed to each practical nurse program coordinator, to state health occupations education supervisory staff, and to the Educational Resources Information Center (ERIC) Clearinghouse.

Curriculum Development (Sec. 133)

OK8413301.
Vocational Agriculture 1 (revised 1984).
Project Director: Patton, Bob PHONE (405) 377-2000.
Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK 84 133 1 048.
Funding Period: Start Date 01 Aug 83; End Date 31 Aug 84.
Fiscal Year Funding: $24,500.
Descriptors: Agricultural-Education. Core-Curriculum. Instructional-Materials. Material-Development. State-Curriculum-Guides.
Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413302.
Fundamentals of Carpentry.
Project Director: Patton, Bob

Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.

Telephone: (405) 377-2000.

Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.

Contract/Control No.: PN: OK 84 133 2 049.

Funding Period: Start Date 01 Aug 83; End Date 31 Jan 85.

Fiscal Year Funding: $18,000.

Descriptors: Carpentry. Core-Curriculum. Instructional-Materials. Material-Development. State-Curriculum-Guides.

Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413303.

Marriage and Family Life.

Project Director: Patton, Bob PHONE (405) 377-2000.

Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.

Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.

Contract/Control No.: PN: OK 84 133 1 050.

Funding Period: Start Date 01 Sep 83; End Date 31 Jul 84.

Fiscal Year Funding: $10,000.

Descriptors: Core-Curriculum. Family-Life-Education. Instructional-Materials. Marriage. Material-Development. State-Curriculum-Guides.

Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industy. This curriculum committee will assist in the identification and validation of the task analysis and will review all material for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413304.

Computerized Numerical Control Turning Technician.

Project Director: Patton, Bob PHONE (405) 377-2000.

Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.

Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.

Contract/Control No.: PN: OK 84 133 2 051.

Funding Period: Start Date 01 Nov 83; End Date 30 Sep 84.

Fiscal Year Funding: $10,000.

Descriptors: Computer-Oriented-Programs. Core-Curriculum. Instructional-Materials. Machine-Tool-Operators. Material-Development. Numerical-Control. State-Curriculum-Guides.

Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413305.

Introduction to Auto Body.

Project Director: Patton, Bob PHONE (405) 377-2000.

Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.

Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.

Contract/Control No.: PN: OK 84 133 2 052.

Funding Period: Start Date 01 Nov 83; End Date 31 Mar 85.

Fiscal Year Funding: $20,000.

Descriptors: Auto-Body-Repairers. Core-Curriculum. Instructional-Materials. Introductory-Courses. Material-Development. State-Curriculum-Guides.

Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413306.

Basic Auto Body Construction.

Project Director: Patton, Bob PHONE (405) 377-2000.

Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.

Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.

Contract/Control No.: PN: OK 84 133 2 053.

Funding Period: Start Date 01 Nov 83; End Date 30 Apr 85.

Fiscal Year Funding: $15,000.

Descriptors: Auto-Body-Repairers. Core-Curriculum. Instructional-Materials. Material-Development. State-Curriculum-Guides.

Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413307.
Marketing.
Project Director: Patton, Bob PHONE (405) 377-2000.
Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK 84 133 2 054.
Funding Period: Start Date 01 Feb 83; End Date 30 Jun 85.
Fiscal Year Funding: $30,000.
Descriptors: Core-Curriculum. Material-Development. Instructional-Materials. Marketing. State-Curriculum-Guides.
Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413308.
Vocational Agriculture 2 (revised 1985).
Project Director: Patton, Bob PHONE (405) 377-2000.
Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK 84 133 1 055.
Funding Period: Start Date 01 May 84; End Date 31 Jul 85.
Fiscal Year Funding: $25,000.
Descriptors: Agricultural-Education. Core-Curriculum. Instructional-Materials. Material-Development. State-Curriculum-Guides.
Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413309.
Residential Carpentry (revised 1985).
Project Director: Patton, Bob PHONE (405) 377-2000.
Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK 85 133 2061.
Funding Period: Start Date 01 Aug 83; End Date 31 Aug 85.
Fiscal Year Funding: $26,000.
Descriptors: Building-Trades. Carpentry. Core-Curriculum. Instructional-Materials. Material-Development. State-Curriculum-Guides.
Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

OK8413310.
Health Services Careers (revised 1985).
Project Director: Patton, Bob PHONE (405) 377-2000.
Organization: State Department of Vocational-Technical Education 1500 West Seventh, Stillwater, OK 74074.
Sponsoring Agency: Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
Contract/Control No.: PN: OK 84 133 2057.
Funding Period: Start Date 01 Feb 84; End Date 31 Oct 85.
Fiscal Year Funding: $35,000.
Descriptors: Core-Curriculum. Health-Personnel. Health-Services. Instructional-Materials. Material-Development. State-Curriculum-Guides.
Identifiers: State. Proposal.

Instructional materials to be developed for local program use will contain eight basic components: performance objectives, suggested activities, information sheets, transparency masters, photos and drawings, assignment sheets, job sheets, and criterion-referenced evaluations, as well as answers to test and assignment sheets. The development of a basic core of instruction will bring about a statewide standardization of instruction. Curriculum specialists and writers will work with a committee composed of teacher educators, vocational teachers, state supervisory staff, and representatives from business and industry. This curriculum committee will assist in the identification and validation of the task analysis and will review all material written for content, teachability, and usability. Teacher and student copies will be printed and made available for local program use. Teacher copies will be provided free of charge; student materials will be available at reproduction costs.

Oregon

Research (Sec. 131)

OR8413101.

Survey of Collaborative Efforts between Schools/Business/Industry/Labor.

Project Director: Dunham, Dan; Dumdi, Elli

Organization: Oregon State University Batcheller Hall, Room 100, Corvallis, OR 97331.

Telephone: (503) 754-2961.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: R-SP-1-84.

Funding Period: Start Date 01 Jul 83; End Date 31 Jan 84.

Fiscal Year Funding: $5,000.

Descriptors: Consortia. Cooperation. School-Business-Relationship. Surveys.

Identifiers: State. Proposal. *Linkages.

A statewide resource on improving linkages and partnerships with schools/business/industry/labor will be created to aid organizations, groups, and institutions. A steering committee will be selected to design and mail a survey, conduct telephone interviews, conduct case studies, prepare conclusions or recommendations and a final report, and prepare a handbook or guide. The survey will identify examples of successful linkages, partnerships, and consortia. The handbook/guide will provide information and strategies for creating, supporting, and operating linkages, partnerships or consortia.

OR8413102.

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.

Project Director: Shively, Jerry; Wells, Sherril

Organization: Douglas County Education Service District 1871 NE Stephens Street, Roseburg, OR 97470.

Telephone: (503) 440-4759.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: PN: R-SP-3-84.

Funding Period: Start Date 15 May 84; End Date 30 Jun 85.

Fiscal Year Funding: $10,000.

Descriptors: College-School-Cooperation. Delivery-Systems. Feasibility-Studies. Interest-Research. Needs-Assessment. Regional-Planning. Rural-Schools. School-Districts.

Identifiers: State. Proposal.

The feasibility study will be conducted to determine if a regional approach to offering vocational education in Douglas County is desirable; a vocational program determined as high priority in the feasibility study then will be established under separate funding. The steering committee appointed will include representatives from business, industry, and agriculture. Surveys of students, teachers and counselors, parents, and business and industry will be conducted to assess the needs and interest in a regional approach and to identify the needs for specific vocational programs. Additionally, a survey will be conducted of school district boards and Umpqua Community College board and school administrators to assess interest in and financial commitment to regional programs. Task forces representative of business and industry and of administrators and board members will be convened to study survey results and draft position statements on regional programs and outline programs deemed desirable. Alternative management and delivery systems then will be defined and their costs determined. Curriculum development and program implementation will be effected under the funding from another source. Formative evaluation will be conducted by the project co-directors, project coordinator, and steering committee. A summative project evaluation will be submitted as part of the final report.

Exemplary and Innovative (Sec. 132)

OR8413201.

Methodology for Computer Skills Improvement in Vocational Secondary Programs.

Project Director: Stern, Sam; Liedtke, Jane

Organization: Oregon State University Department of Vocational-Technical Education, Corvallis, OR 97331.

Telephone: (503) 754-2733.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: PN: E-S-1-84.

Funding Period: Start Date 01 Nov 83; End Date 20 Jun 84.

Fiscal Year Funding: $4,966.

Descriptors: Computer-Literacy. Pilot-Tests. Skill-Development. Teaching-Guides. Teaching-Methods.

Identifiers: State. Proposal.

A methodology for computer literacy skills improvement in vocational secondary programs will be developed and demonstrated. The strategy will be pilot tested in the food service career cluster. A teachers' procedures handbook will be developed, including sections on resources in computer literacy, principles of computer systems, computer applications in vocational education, sample programs and exercises, and how to evaluate computer software. A final report will be delivered.

OR8413202.

Promising Practices Diffusion.

Project Director: Monthey, Wanda

Organization: Oregon Department of Education 700 Pringle Parkway, SE, Salem, OR 97310.

Telephone: (503) 378-2713.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: PN: E-SP-1-84.

Funding Period: Start Date 15 Nov 83; End Date 30 Sep 84.

Fiscal Year Funding: $40,000.

Descriptors: Adoption-Ideas. Diffusion-Communication. Grants. Information-Utilization.

Identifiers: State. Proposal. *Promising Practices.

Grant-in-aid contractual agreements totaling $30,000 will be available in amounts up to $4,999 to regional coordinators to aid local adaptation or adoption of promising practices. Funds may be used for release time, travel, per diem, and materials acquisition upon request. Another $10,000 will be available to prepare promising practices for dissemination. Each project funded will include a final report and, if applicable, revised materials handbooks. These reports will be summarized and included in an overall final report.

Curriculum Development (Sec. 133)

OR8413301.

Statewide Cooperative Education Videotape.

Project Director: Archibald, Bob

Organization: Portland Community College 12000 SW Forty-ninth Avenue, Portland, OR 97219.

Telephone: (503) 244-6111.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 26-650-898; PN: C-PS-1-84.

Funding Period: Start Date 15 Aug 83; End Date 17 Oct 83.

Fiscal Year Funding: $2,000.

Descriptors: Cooperative-Education. Public-Relationships. State-Programs. Television. Videotape-Cassettes.

Identifiers: State. Proposal. *Public Service Advertising.

A twenty-minute videotape representing cooperative education in Oregon will be developed, produced, edited, and disseminated to primary and secondary schools, to community and four-year colleges, and to television stations as public service announcements. The videotape will make the audience aware of financial aid possibilities and the career/academic tie-in and will illustrate examples of cooperative education's application for youth with academic, socioeconomic, physical, or other handicaps.

OR8413302.

Oregon Partnership Electronics Program.

Project Director: Dunham, Daniel B.

Organization: Oregon State University Oregon Alliance for Program Improvement, 112 Batcheller Hall, Corvallis, OR 97331-2404.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-371; PN: C-PS-3-84.

Funding Period: Start Date 01 Oct 83; End Date 31 Dec 83.

Fiscal Year Funding: $13,849.

Descriptors: Competency-Based-Education. Computer-Assisted-Instruction. Electronics. Modules. Videotape-Cassettes.

Identifiers: State. Proposal.

The Oregon Partnership Electronics Program (OPEP), a partnership of labor, industry, and educational representatives, will supervise the development, production, and distribution of a complete set of computer-assisted video instruction (CAVI) modules for a competency-based electronic instruction program. Field test sites will be established for complete modules. A long range funding plan will be developed for the OPEP project and a nonprofit status established with the Oregon State University Foundation. Potential resources will be identified for developing and implementing interactive video electronic training modules. The products will be evaluated by the technical steering group for technical accuracy. Oregon State University professors will conduct field tests for readability and educational pedagogy with clients from Job Training Partnership Act intake offices. The materials will be tested in a laboratory environment with actual trainees.

OR8413303.

Forestry and Forest Products: Quality Felling and Bucking.

Project Director: Dunham, Daniel B.

Organization: Oregon State University Program Alliance Center for Program Improvement, Corvallis, OR 97331.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-374; PN: C-PS-5-84.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $972.

Descriptors: Audiotape-Cassettes. Forestry. Instructional-Materials. Material-Development. Slides.

Identifiers: State. Proposal. *Bucking. *Felling.

A slide/tape program with script about quality felling and bucking will be developed in coordination with a U. S. Forestry Service representative from region 5. A master set of slides will be developed and a script provided. The cassette tape describing the slides will provide background information and an addendum to the script. Notification of the program will be made to individual high school and community college instructors, federal and state forest agencies, and associated loggers through written documents and newspaper articles. Instructors will provide feedback through written evaluation, personal contacts, and annual conferences. The quality of felling and bucking techniques will be improved through this learning device, thereby increasing the utilization of raw materials.

OR8413304.

Curriculum Development in Agriculture, 1984.

Project Director: Cole, R. Lee

Organization: Oregon State University Corvallis, OR 97331.

Telephone: (503) 754-2661.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-372; PN: C-S-2-84.

Funding Period: Start Date 01 Dec 83; End Date 30 Sep 84.

Fiscal Year Funding: $11,000.

Descriptors: Agricultural-Education. Curriculum-Guides. Farm-Management. Units-of-Study.

Identifiers: State. Proposal.

Input from the field test of the agriculture 4 curriculum will be used to make necessary refinements. The curriculum then will be finalized, printed, and distributed to vocational agriculture teachers at the summer conference. Additionally, a new farm business management unit will be developed which deals with theory yet provides appropriate application in agriculture. Finally, errors detected in the agriculture 2 guide will be corrected and update sheets supplied to vocational agriculture teachers. A statewide curriculum guide for agriculture 4 and up-to-date curriculum materials for teachers will result.

OR8413305.

Training Curriculum for Millmen and Cabinetmakers.

Project Director: Dunham, Daniel B.

Organization: Oregon State University Oregon Alliance, 112 Batcheller Hall, Corvallis, OR 97331-2404.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-365; PN: C-P-2-84.

Funding Period: Start Date 01 Sep 83; End Date 31 Mar 84.

Fiscal Year Funding: $3,000.

Descriptors: Cabinetmaking. Check-Lists. Job-Analysis.

Identifiers: State. Proposal.

Cooperation will be sought from joint apprenticeship committees around the state to produce a task inventory for cabinetmaker/millman, which will be verified through an incumbent worker survey. Components of a four-year training program will be identified, and a nationwide search will be conducted for related materials. Available materials will be assessed and recommendations made for the most useful. A course outline and cost estimates for developing a training program will be provided, and a final report will be delivered.

OR8413306.

Introduction into Use of Oscilloscope.

Project Director: Dunham, Daniel B.

Organization: Oregon State University Oregon Alliance, 112 Batcheller Hall, Corvallis, OR 97331-2404.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-368; PN: C-PS-2-84.

Funding Period: Start Date 15 Oct 83; End Date 31 Dec 83.

Fiscal Year Funding: $10,000.

Descriptors: Audiovisual-Instruction. Computer-Assisted-Instruction. Electrical-Occupations. Videotape-Cassettes.

Identifiers: State. Proposal. *Oscilloscopes. Hands On Experience. Open Entry Open Exit.

A high quality instructive video module on oscilloscope use will be developed for implementation in those electrical training programs for which upgrading in oscilloscope use is necessary. The curriculum in each field within the module will allow multiple open entry and exit paths. The module will be field-tested within electrical trades. Features will include short term, job-specific training to improve the productivity of existing electrical trade training programs. Also, determination of software, hardware, and lab station equipment specifications will be made to improve the quality and productivity of computer-assisted video instruction. Resources to develop and implement the program will be managed and coordinated, including identifying resources; establishing a technical steering committee; developing module specifications, acceptance criteria, and a field list; and establishing a network and clearinghouse for resource sharing. As a result of the module instruction, electrical trades training will be brought up to date in the field of electrical technology, and the placement rate for jobs requiring oscilloscope use will increase.

OR8413307.

High School Industrial Arts Curriculum Guide.

Project Director: Terry, Art

Organization: Marion Education Service District 3400 Portland Road, NE. Salem. OR 97303.

Telephone: (503) 378-7470.

Sponsoring Agency: Oregon State Board of Education. Salem.

Contract/Control No.: CN: 24-000-345; PN: C-S-1-84.

Funding Period: Start Date 01 Sep 83; End Date 01 Sep 84.

Fiscal Year Funding: $9,000.

Descriptors: Curriculum-Guides. Industrial-Arts. Trade-and-Industrial-Education.

Identifiers: State. Proposal.

A curriculum for industrial arts in grades 9-12 will be developed by an industrial education curriculum development consultant, guided by a steering committee. Exploratory activities for trade and industrial clusters will be organized. Following field-testing in three high schools, the curriculum guide will be revised, published, and disseminated through the state professional organization. A statewide inservice workshop will be conducted for high school industrial arts teachers, and technical assistance will be provided to adopters. A final report will be delivered.

OR8413308.

Curriculum—Forest Products Computer Bibliography.

Project Director: Dunham, Daniel B.

Organization: Oregon State University Oregon Alliance for Program Improvement, Corvallis, OR 97331.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-373; PN: C-PS-4-84.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $648.

Descriptors: Bibliographies. Computer-Programs. Forestry.

Identifiers: State. Proposal.

A bibliography of forestry and forest products computer programs will be developed and disseminated to high schools and community colleges. Computer companies will be contacted for software listings, and community colleges and high schools will be contacted for individually developed programs. The alliance will serve as a central clearinghouse for forestry computer information.

OR8413309.

Industry Panel Curriculum Project.

Project Director: Giblin, Michael J.

Organization: Oregon State University Corvallis, OR 97331.

Telephone: (503) 754-2[illegible]33.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-378; PN: C-S-3-84.

Funding Period: Start Date 01 May 84; End Date 30 Jun 85.

Fiscal Year Funding: $17,500.

Descriptors: Advisory-Committees. Industrial-Personnel. Occupational-Clusters. Review-Reexamination. Revision-Written-Composition. School-Business-Relationship. Teaching-Guides.

Identifiers: State. Proposal.

Cluster guide updates will be developed and disseminated for nine selected occupational cluster areas based upon recommendations by an industry review panel (IRP). The updates will include recommendations on changes in program goals, industry trends, industry cluster area employment trends, subject matter emphasis, and equipment needs. Activities will include developing criteria for determining cluster areas to be reviewed and for selecting IRP members. A list of duties and expectations of IRP members and material to enhance efficient use of panel members' expertise also will be developed. Material and information provided by the IRP will be compiled. The IRP then will be coordinated with the work of the Oregon Occupational Information Coordinating Committee and with the work of the Oregon Department of Education (ODE) specialist, who will receive recommendations from the IRP on the final revision. ODE personnel will review the updated guide, which will be printed and distributed to appropriate teachers and administrators. A final report will be delivered.

OR8413310.

Review of the Vocational Cluster System.

Project Director: Hargis, Nancy PHONE (503) 378-8416.

Organization: Employment Division, Department of Human Resources 875 Union Street, NE, Salem, OR 97311.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 9412; PN: C-S-4-84.

Funding Period: Start Date 15 Jun 84; End Date 30 Jun 85.

Fiscal Year Funding: $9,913.

Descriptors: Curriculum-Evaluation. Delivery-Systems. Employment-Projections. Labor-Needs. Occupational-Clusters. School-Business-Relationship. Units-of-Study.

Identifiers: State. Proposal.

The Oregon Occupational Information Coordinating Committee (OOICC) and Occupational Program Planning System (OPPS) staff will analyze and review the cluster system for its relevance to labor market needs of the 1980's and 1990's. National clusters developed by the National Occupational Information Coordinating Committee will be used to help identify clusters, as will a study of the present approach, discussions with labor economists, and review by industry panels. Occupations to be included in the clusters also will be identified. Additionally, commonalities among occupations based on aptitude, math, language, and specific vocational preparation time requirements will be investigated. Recommendations then will be submitted on levels of instruction, delivery systems, and basic skills required. A mechanism for periodic review of clusters will be developed, and recommendations for cluster assessment and evaluation will be proposed. Products will include recommendations for cluster configuration, levels of instruction, rationale for the development of new or revised cluster units, a definition and description of each cluster, a list of related occupations, and the recommendations for periodic review. A final report also will be delivered.

OR8413311.

Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).

Project Director: Dunham, Daniel B.

Organization: Oregon State University 112 Batcheller Hall, Oregon State University, Corvallis, OR 97331-2404.

Telephone: (503) 754-2179.

Sponsoring Agency: Oregon State Board of Education, Salem.

Contract/Control No.: CN: 50-004-380; PN: C-PS-G-84.

Funding Period: Start Date 01 Jun 84; End Date 30 Jun 85.

Fiscal Year Funding: $11,000.

Descriptors: Apprenticeships. Cabinetmaking. Curriculum. Directories. Instructional-Materials. Material-Development. Units-of-Study.

Identifiers: State. Proposal. *Related Instruction.

Apprenticeship-related materials identified in phase 1 will be developed to provide a comprehensive related training curriculum for apprentice millmen/cabinet-makers. Consultants from the trade will write the curriculum, which will be evaluated by the State Joint Apprenticeship Committee and an outside evaluator. A skills/task record card that includes all the topics listed on the twelve outlines will be developed, in addition to needed instructional units identified in phase 1. As much audiovisual supplementary material as possible will be identified to support instruction for an audiovisual directory. When materials are completed, a statewide one-day inservice program will be provided to introduce apprenticeship instructors to the materials and to techniques for their use. An inservice instructional unit will be included for identifying disadvantaged and handicapped students and providing specialized assistance. A final report will be delivered.

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Pennsylvania

Research (Sec. 131)

PA8413101.

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.

Project Director: Thompson, Mary J.

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, Rackley Building, University Park, PA 16802.

Telephone: (814) 863-0805.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4003.

Funding Period: Start Date 01 Aug 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Curriculum. Education-Objectives. Guidelines. Instructional-Materials. Literature-Reviews. State-of-the-Art-Reviews. Teaching-Methods.

Identifiers: State. Proposal. *Diversified Occupations. *Related Instruction.

Curriculum guidelines will be determined and, where possible, obtained for diversified occupations programs in Pennsylvania. Current literature will be searched, and state and local school districts with programs similar in operating procedures to Pennsylvania will be contacted via questionnaires to identify curriculum goals, objectives, and instructional techniques and materials. A collection of appropriate instructional materials will be compiled. A final report, the curriculum guidelines, and the set of procedures will be delivered.

PA8413102.

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach.

Project Director: Cromwell, Susan E.

Organization: The Pennsylvania State University Department of Agricultural and Extension Education, University Park, PA 16802.

Telephone: (814) 865-6331.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4002.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,870.

Descriptors: Agricultural-Production. Course-Content. Courses. Educational-Planning. Units-of-Study. Vocational-Education-Teachers.

Identifiers: State. Proposal. *Planning Books.

A new approach in developing courses of study will be developed for use by production vocational agriculture teachers. A planning book will be written that identifies the units to be included and problem areas to identify. A draft will be written, reviewed, revised, reviewed again, and tested. The planning book and a final report will be delivered.

PA8413104.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania.

Project Director: Connelly, Kenn J.

Organization: The Pennsylvania State University Department of Agricultural and Extension Education, University Park, PA 16802.

Telephone: (814) 863-0068.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4004.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,993.

Descriptors: Competency-Based-Education. Educational-Practices. Instructional-Materials. Teaching-Methods. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Vocational education instructors in Pennsylvania will be surveyed to identify (1) how competency-based instructional materials are used; (2) where, in vocational education programs, competency-based materials are being used; and (3) how teachers are blending competency-based materials into the teaching process. Ten vocational teachers will be selected from a random sample of secondary and postsecondary schools to be polled by mail, phone, or personal interview. A final report will be delivered.

PA8413105.

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System.

Project Director: Wallace, Dana E.

Organization: The Pennsylvania State University Division of Agricultural and Extension Education, 102 Armsby Building, University Park, PA 16802.

Telephone: (814) 863-0068.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4005.

Funding Period: Start Date 01 Aug 83; End Date 30 May 84.

Fiscal Year Funding: $1,982.

Descriptors: Agricultural-Education. Attitude-Change. Evaluation-Methods. Research-Projects.

Identifiers: State. Proposal. *Forage Testing.

Competencies necessary for farmers to recognize the value of forage testing and use forage testing as a management tool in their farming operations will be developed. The study will determine what use farmers currently make of forage analysis for formulating rations and the effectiveness of the portable forage testing system in changing farmers' and educators' attitudes toward the use of forage analysis. To accomplish this, an analysis system will be developed and tested. Available computer programs will be translated from Fortran to a basic language for use on the Apple II and Radio Shack TRS80, and new programs will be written to connect the N102 directly with the microcomputer, enabling direct computer readout of a forage analysis, conventional ration, least cost ration, and a total mixed ration. Workshops will be conducted for county extension agents and vocational agriculture teachers demonstrating the technology and its use. A final report will be delivered.

PA8413106.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.

Project Director: Iwler, Irvin H.

Organization: University of Pittsburgh Department of Vocational Education, 4K30 Forbes Quadrangle, Pittsburgh, PA 15260.

Telephone: (412) 624-1291.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4006.

Funding Period: Start Date 15 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,693.

Descriptors: Data-Collection. Graduate-Surveys. Interviews. Literature-Reviews. Nurses. Nursing-Education. Program-Evaluation. Questionnaires.

Identifiers: State. Proposal. *Impact Evaluation.

The practical nurse program will be evaluated. Data collection will be conducted via literature review, mailed survey questionnaires, and interviews. Literature review will identify program philosophies/objectives and historical basis, funding patterns, program outcomes, and practice. Questionnaires will determine the current status of the profession and of program graduates; mobility, trends, and advancement opportunities; and perceptions of program success, quality, and need. Interviewers will collect data concerning funding/tuition; graduate placement; local forecasts; program scope emphasis; and recruitment procedures. Interviews will be conducted with a representative sample. A final report will be delivered.

PA8413107.

Assessment of the Impact of the Bureau of Vocational Education's Program for Disadvantaged Populations in Pennsylvania.

Project Director: Iutcovich, Joyce M.

Organization: Northwest Institute of Research 434 West Eighth Street, Erie, PA 16502.

Telephone: (814) 459-8347.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 84-4007.

Funding Period: Start Date 01 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $19,651.

Descriptors: Disadvantaged. Program-Effectiveness. Program-Evaluation.

Identifiers: State. Proposal. *Impact Evaluation.

The impact of the Bureau of Vocational Education's program for disadvantaged populations will be assessed, determining if the state's strategy for 1979 through 1982 has significantly impacted upon the problems of the disadvantaged. Implementation assessments also will be made. Research data will be gathered via a mailed questionnaire and analyzed quantitatively and qualitatively. Onsite visits of twelve projects will produce additional qualitative data. A final report will be delivered.

PA8413108.

First-Year Impact of Customized Job Training Program.

Project Director: Nagy, Mark C.

Organization: Mark C. Nagy Associates 101 Locust Grove Road, Rosemont, PA 19010.

Telephone: (215) 525-5952.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4008.

Funding Period: Start Date 10 Oct 83; End Date 27 Feb 84.

Fiscal Year Funding: $9,975.

Descriptors: Data-Collection. Job-Training. Program-Evaluation.

Identifiers: State. Proposal. *Customized Job Training. *Impact Evaluation.

The impact of the year-old Customized Job Training (CJT) program will be assessed. Data will be collected in the following categories: client, business/industry, local education agency, community, client perceptions, and identification of existing programs. This information will be gathered from state documents, phone interviews, Bureau of Vocational Education files, review of the projects, and mailed questionnaires sent to a random sample of clients. Data analysis will concern clients' perceptions of customized job training with regard to training, type of job, etc. Twenty exemplary CJT programs will be identified. Descriptions of exemplary programs and a final report will be delivered.

PA8413109.

Statewide Evaluation of Vocational Education's Consumer and Homemaking Programs.

Project Director: Sutter, Sally A.

Organization: 120 Ruskin Drive, Altoona, PA 16602.

Telephone: (814) 942-9787.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4011.

Funding Period: Start Date 15 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Consumer-Education. Home-Economics. Program-Evaluation. State-Programs.

Identifiers: State. Proposal.

A systematic, statewide evaluation of the Bureau of Vocational Education's consumer and homemaking programs will be prepared and conducted, including a historical review, background, and purpose of federal funding; extent to which consumer and homemaking programs are responsive to the requirements and intent of that funding; role of consumer and homemaking in overall state strategy and vocational education plan; and impact of program on learners. Findings will provide a basis for recommendations for improvement and redirection of these programs, including funding considerations. Related studies, including the National Institute of Education nationwide survey of consumer and homemaking programs, will be reviewed, categorized, and compared. Questionnaires will be mailed to each funded district. Projects will be selected for in-depth study, including telephone and on-site interviews. Data will be collected and evaluated on the funding impact, especially on students using technical assistance provided by the National Center for Research in Vocational Education. A final report will be delivered.

PA8413110.

Developing a Model for Analyzing Administrators' Professional Commitment in Pennsylvania Postsecondary Technical Schools.

Project Director: Fang, Rong-Jyue

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 119 Rackley Building, University Park, PA 16802.

Telephone: (814) 863-0805.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4010.

Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Administrator-Characteristics. Administrator-Evaluation. Administrators.

Identifiers: State. Proposal.

To gain a clearer picture of individuals responsible for directing local technical education programs, a study will be conducted to determine administrators' professional commitment in postsecondary technical schools, in terms of individual exploration, professional values, professional confidence, and professional satisfaction; to test the hierarchy of the model relative to the developing status of professional commitment; to identify the demographic characteristics of school administrators in postsecondary technical schools; and to compare the professional commitment of academic administrators and nonacademic administrators. Postsecondary technical school administrators will be sampled. To test professional commitment, the Loftis professional commitment scale, competencies identified by The Center for Vocational Education Studies, Schaffer's satisfaction scale, and Kilpatrick's value scales will be used. The instruments and a preaddressed, postage-paid envelope will be mailed to the target population. A final report and a model of use in analysis of professional commitment will be produced.

PA8413111.

Development of an Instructional Unit for the New Computer-compatible Record Book.

Project Director: Ragan, Lawrence C.

Organization: The Pennsylvania State University Department of Agricultural and Extension Education, University Park, PA 16802.

Telephone: (814) 856-6331.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4013.

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Computer-Oriented-Programs. Computers. Curriculum-Development. Recordkeeping. Teaching-Guides. Units-of-Study.

Identifiers: State. Proposal. *Supervised Occupational Programs.

A unit of instruction, including a student manual, will be developed for use with the new SOEP (Supervised Occupational Experience Program) computer-compatible record system. The instructional unit and teachers' guide will incorporate the changes in the revised record book. A sample 'walk through' problem will be developed to demonstrate the new system of recordkeeping. The unit and guide will be tested by five teachers, and their suggestions will be incorporated into the revised unit. Final copies of the manual, unit, and a final report will be delivered.

PA8413112.

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners.

Project Director: Shiver, Thrisha G.

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 109 Rackley Building, University Park, PA 16802.

Telephone: (814) 865-2580.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4014.

Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Disadvantaged. Individualized-Instruction. Inservice-Teacher-Education. Needs-Assessment. Pretests-Posttests. Program-Evaluation. Vocational-Education-Teachers.

Identifiers: State. Proposal.

The effectiveness of an individualized inservice approach for vocational teachers of disadvantaged learners will be assessed. Following a literature review, a needs assessment pretest will be administered to teachers participating in the project. Resource team members will assist teachers in identification and assessment, lesson planning, curriculum modification, and evaluation techniques. After a ten-week training period, teachers will complete a needs assessment posttest and a questionnaire (Q-sort items) to evaluate the program. Data will be analyzed, conclusions rendered, and recommendations made. A final report will be delivered.

PA8413113.

An Analysis of Vocational Teachers' Understandings and Attitudes toward Using Microcomputers in Vocational Education.

Project Director: Yuen, Chi-Yin

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 109B Rackley Building, University Park, PA 16802.

Telephone: (814) 863-0805.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4012.

Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Computer-Oriented-Programs. Microcomputers. Teacher-Attitudes. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Vocational teachers' knowledge of and attitudes toward the use of microcomputers in vocational education will be determined. A random sample of vocational teachers at area vocational schools will be surveyed via mailed questionnaires. Data analysis will concern understandings and attitudes toward microcomputers, relationships between the two, and influencing variables. A final report will be delivered.

PA8413114.

Assessment of the Impact of the Bureau of Vocational Education's Program for Displaced Homemakers.

Project Director: Kinter, Ona Kay

Organization: University of Pittsburgh Department of Vocational Education, 4M31 Forbes Quadrangle, Pittsburgh, PA 15260.

Telephone: (412) 624-1298.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4009.

Funding Period: Start Date 15 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $14,996.

Descriptors: Displaced-Homemakers. Program-Evaluation.

Identifiers: State. Proposal. *Impact Evaluation.

The displaced homemakers program will be evaluated. A questionnaire will be sent to directors of all projects funded between 1979 and 1982, and a random sample of five projects will be selected for on-site visits. A follow-up questionnaire will be mailed to ten percent of all project graduates to determine career outcome. Data will be summarized, analyzed, and included in the final report.

PA8413116.

Study of Employers' Views on Critical Issues Facing Vocational Education in Pennsylvania.

Project Director: Williams, William

Organization: The Pennsylvania State University Department of Agricultural and Extension Education, 101 Armsby Building, University Park, PA 16802.

Telephone: (814) 863-0443.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4018.

Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $9,729.

Descriptors: Educational-Needs. Employer-Attitudes. Needs-Assessment.

Identifiers: State. Proposal.

A random sample of employers from selected statistical areas will be invited to regional meetings to discuss their views on selected critical issues facing vocational education in Pennsylvania. The Nominal Group Technique will be used [illegible] elicit the information from about 200 employers at four sites. Recommendations will be made on employers' views. A final report will be delivered.

PA8413117.

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.

Project Director: Kershner, Keith M.

Organization: Research for Better Schools, Inc. 444 North Third Street, Philadelphia, PA 19123.

Telephone: (215) 574-9300.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4015.

Funding Period: Start Date 15 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $14,943.

Descriptors: Career-Guidance. Data-Analysis. Data-Collection. Educational-Finance. Public-Policy. State-Department-of-Education. State-Programs.

Identifiers: State. Proposal. *Impact Evaluation.

A study will be conducted to synthesize the existing information based on the state's system of vocational guidance and to collect and analyze additional information on the impact of state-sponsored programs. The study also will address the extent to which funded projects have provided quality vocational guidance programs. Mechanisms for allocating diminishing resources for vocational guidance will be examined. The components that will be examined are: (1) federal priorities, (2) state department of education approach, (3) state-funded activities, (4) program outcomes, and (5) future directions/policy recommendations. A final report will be delivered.

PA8413118.

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.

Project Director: Dusewicz, Russell A.

Organization: Research for Better Schools, Inc. 444 North Third Street, Philadelphia, PA 19123.

Telephone: (215) 574-9300.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4016.

Funding Period: Start Date 15 Oct 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Data-Analysis. Disabilities. Educational-Needs. Educational-Quality. Evaluation-Methods. Program-Evaluation. State-Departments-of-Education. State-Programs.

Identifiers: State. Proposal. *Impact Evaluation.

This study will synthesize information on the state's vocational education programs for the handicapped and will assess the impact of the state department of education's (PDE) programs from 1979-1982. The quality of vocational education programs for the handicapped will also be evaluated. Five components will be examined: (1) problems/needs of the target population, (2) PDE priority solutions, (3) PDE-funded activities/programs, (4) program outcomes, and (5) future directions/policy recommendations. Evaluation will be carried out via review of documentation, interviews with state officials, site analysis, mail and telephone surveys, and data analysis. A final report will be delivered.

PA8413119.

Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory.

Project Director: Dentler, Donna J.

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 119 Rackley Building, University Park, PA 16802.

Telephone: (814) 865-6331.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4017.

Funding Period: Start Date 01 Nov 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,000.

Descriptors: Career-Choice. Career-Development. Females. Research-Reports.

Identifiers: State. Proposal. *Bandura (Albert). *Self Efficacy Theory.

Bandura's theory of self-efficacy will be applied to the vocational behavior of rural, suburban, and urban women to determine differences in perceived self-efficacy. The investigation also will look for differences in traditional, dual career, and nontraditional parental units. The study will utilize data from the 1981 Educational Quality Assessment Inventory on female students in grade 11. A final report will be delivered.

PA8413120.

Impact of Federal Funds on Selected Industrial Arts Programs in Pennsylvania.

Project Director: Nagy, Mark C.

Organization: Mark C. Nagy Associates 101 Locust Grove Road, Rosemont, PA 19010.

Telephone: (215) 525-5952.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4019.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $6,980.

Descriptors: Federal-Aid. Industrial-Arts.

Identifiers: State. Proposal. *Impact Evaluation. Program Expansion.

The impact of federal funds on selected industrial arts programs in Pennsylvania will be assessed. The study will address the following: (1) what equipment was provided by the allocated funds, (2) how the funds enhanced articulation, (3) whether or not the funds aided program expansion, and (4) whether or not the funding aided staff development. Data will be collected via mail survey, personnel interviews, review of project files, questionnaires, and follow-up telephone interviews. A random sample of the industrial arts programs will be chosen for on-site visits. Results of the mail survey and on-site visits will be analyzed. The final report will include research methodology, findings, conclusions, recommendations, and implications for further research.

PA8413121.

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.

Project Director: Wu, Ming-Jenn

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 109 Rackley Building, University Park, PA 16802.

Telephone: (814) 863-0802.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4020.

Funding Period: Start Date 01 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $1,936.

Descriptors: Administrator-Attitudes. Content-Analysis. Cost-Effectiveness. Leadership-Training. Student-Attitudes. Student-Organizations. Surveys. Teacher-Attitudes. Workshops.

Identifiers: State. Proposal. *Vocational Industrial Clubs of America.

The content of the fall VICA workshop will be analyzed to determine what educational materials are delivered. Students will be surveyed to determine whether or not the workshop material was retained and whether or not it was taught through school processes. Teacher advisors will be asked what is being taught at school and what could be taught only at a workshop. Administrators will be questioned concerning cost effectiveness of such an operation. A final report will be delivered.

PA8413122.

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.

Project Director: O'Neill, Edmund J.

Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 119 Rackley Building, University Park, PA 16802.

Telephone: (814) 863-0805.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 83-4021.

Funding Period: Start Date 15 Feb 84; End Date 30 Jun 84.

Fiscal Year Funding: $1,636.

Descriptors: Administrator-Attitudes. Admission-Criteria. Counselor-Attitudes. School-Policy. Student-Recruitment. Surveys.

Identifiers: State. Proposal.

In examining the policies and processes used in recruitment and selection, a major objective will be to identify the recruitment procedures, the selection criteria, and the underlying philosophy of who could attend. A second objective will be to determine if there are significant differences between administrators and counselors in opinions regarding process variables. Administrators and counselors in all area vocational-technical schools (AVTS) in the state will receive a survey instrument designed by the researcher. The three instrument sections will deal with demographic information on the school and policies used; (2) opinions regarding student readiness, predictive criteria, and attitudes of significant others toward vocational education; and (3) biographical data on respondents to allow for comparisons of opinions based on age, sex, education, and experience in administration or counseling and teaching. Survey results will be tabulated using the facilities of the Wilkes-Barre AVTS data processing department. Chi-square treatment will be applied to determine if there are significant differences between the opinions of directors and counselors based on the respective positions in the schools. A final report will be delivered. Abstracts will be provided to all participating AVTSs to enable them to compare their procedures to procedures of other schools to determine if and where improvements could be made.

Exemplary and Innovative (Sec. 132)

PA8413201.

Industry/Education Coordinator.

Project Director: Ankney, William

Organization: School District of Pittsburgh 341 South Bellefield Avenue, Pittsburgh, PA 15213.

Telephone: (412) 622-3703.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 84-4001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $52,551.

Descriptors: Coordinators. Curriculum-Evaluation. Followup-Studies. Graduates. Job-Search-Methods. School-Business-Relationship. Teacher-Improvement.

Identifiers: State. Proposal.

The coordinator hired will implement at least sixty industry/business/education visits, at least 70 percent of which will be new contacts; 40 percent of these will receive additional consolidating visits. The coordinator will participate in the twenty-four advisory committee meetings pertinent to Connelley Skills Center and sponsor at least one open house for business and industry representatives to view and evaluate Connelley and its curriculum. Also, a Teacher to Industry Day will be planned in which each of 30 percent of the teachers will spend a day with a line supervisor at the work site. At least one industrial field trip will be conducted for each skill cluster in the center, and at least eight business and industry consultants will be recruited for Connelley program study, evaluation, and improvement. Finally, the coordinator will interview all graduates in need of job-seeking skills, ascertain their needs, and conduct classes to eliminate these needs; conduct a three-month follow-up of all graduates; and ascertain the number of job placements resulting from the project.

PA8413202.
Industry/Education Coordinator.
Project Director: Heller, Dale
Organization: Tuscarora Intermediate Unit 11 Box 70-A, RD 1, McVeytown, PA 17051.
Telephone: (717) 899-7143.
Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.
Contract/Control No.: CN: 84-4002.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $36,446.
Descriptors: Coordination. Coordinators. Needs-Assessment. School-Business-Relationship.
Identifiers: State. Proposal. Hands On Experience.

In addition to providing a liaison between private industry/business and education, the coordinator hired will coordinate with industry and education in planning, developing, and implementing training programs that meet private industry needs and will expand cooperative opportunities in schools to provide 'hands-on' experiences. Research and educational consultant service will be provided to advisory councils to help them meet their objectives, and schools will receive advice on local industry trends regarding advanced technology, employment opportunities, and projected job classifications. Finally, schools and Private Industry Councils will receive assistance in developing occupational competencies of skills training as required in the Job Training Partnership Act. Procedures will include (1) establishing a communication link with the nine area school districts, two area vocational-technical schools, Private Industry Councils, private industry/business, and governmental agencies; (2) developing and using a survey instrument to assess the entry level, retraining, and grading training needs of area businesses and industry; (3) determining training facilities and capabilities with potential usefulness to business and industry; and (4) developing a system to assess regularly the business/industry training needs and educational institutional capabilities.

PA8413203.
Industry/Education Coordinator.
Organization: Intermediate Unit 12 PO Box 70, New Oxford, PA 17350.
Telephone: (717) 624-4616.
Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.
Contract/Control No.: CN: 84-4005.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $39,031.
Descriptors: Coordination. Coordinators. Job-Skills. Job-Training. Organizational-Communication. School-Business-Relationship.
Identifiers: State. Proposal. *Job Training Partnership Act. Impact Evaluation. Private Industry Councils.

The coordinator hired will participate in the coordination of communication between private industry/business and education related to Job Training Partnership Act (JTPA) activities, assist the Private Industry Council (PIC) in developing occupational competencies as required for JTPA, and assist in the coordination of workshops designed to inform individuals and agencies regarding the intent of JTPA. The coordinator also will assist in the development of training programs that meet private industry needs. Additionally, consultant services will be provided to JTPA executive director and the PIC in meeting the objectives of the JTPA program and to schools in the two-county service area concerning JTPA training needs and directions. Finally, the coordinator will participate in cooperative efforts with other coordinators. Procedures will include (1) conducting surveys to emphasize continued training needs and presenting the results to the PIC and educational agencies, (2) articulating training efforts and conducting follow-up studies to measure the impact of training efforts on private industry needs, (3) developing a two-county profile of agencies or institutions and organizations that provide services to JTPA clients, and (4) developing potential funding profiles for institutions and organizations of funding sources that may interfere with JTPA emphasis.

PA8413204.
Adult and Postsecondary Developmental Initiatives.
Project Director: Myers, Byron
Organization: Luzerne County Community College Nanticoke, PA 18634.
Telephone: (717) 735-8300.
Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.
Contract/Control No.: CN: 84-4003.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $77,708.
Descriptors: Job-Training. Program-Development. School-Business-Relationship. Technological-Advancement.
Identifiers: State. Proposal. Job Training Partnership Act.

Existing training programs of consortium members and other regional educational agencies and institutions which show a relationship to advanced technology industry needs will be identified; programs that show possibilities of meeting existing industry needs will be redesigned or modified, where possible. A planning document then will be developed for new training programs designed to meet existing or future industry needs not met by the redesigned or modified programs. The modified programs will be illustrated and described in a report or training package that includes the planning document. This training package will be coordinated with industry and the Job Training Partnership Act. Finally, a tracking system will be developed for follow-up of participants through training phases and into employment and for project evaluation. Participants will be categorized by industry, new training, existing training, or redesign/modification training, as well as by degree, certificate, or job upgrading.

PA8413205.
Job Training Consortium Program—Industry/Education Coordinator.
Project Director: Rothdeutsch, Joseph
Organization: Lehigh County Area Vocational-Technical School 2300 Main Street, Schnecksville, PA 18078.
Telephone: (215) 799-1322.
Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.
Contract/Control No.: CN: 84-4004.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $23,892.
Descriptors: Consortia. Industry. Job-Training. Program-Development. Publicity. School-Business-Relationship.
Identifiers: State. Proposal.

Lehigh County Vocational-Technical School, Carbon County Vocational-Technical School, and Lehigh County Community College will be organized into a consortium operated with a central office at Lehigh County Vocational-Technical School. Through meetings with industry, job training needs will be established, in order to provide customized training and assessment. Local industries and the public will be made aware of the consortium's program services and offerings through published pamphlets, brochures, etc. Training and retraining programs then will be developed and run to help alleviate and improve the employability of individuals and meet industry's needs. Finally, a plan will be established for effective program assessment.

Curriculum Development (Sec. 133)

PA8413103.
The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
Project Director: Just, David A.
Organization: The Pennsylvania State University Division of Occupational and Vocational Studies, 110 Rackley Building, University Park, PA 16802.
Telephone: (814) 863-3859.
Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.
Contract/Control No.: CN: 83-4001.
Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.
Fiscal Year Funding: $2,000.
Descriptors: Delinquency. Females. Occupational-Aspiration. Questionnaires. Research.
Identifiers: State. Proposal. *National Longitudinal Surveys. *Ohio Work Values Inventory. *Work Values Inventory.

The relationship between work values and occupational aspirations of female delinquents (aged 16-21) and the National Longitudinal Survey (NLS) of Youth database will be explored. The occupational aspiration questionnaire and the Ohio Work Values Inventory questionnaire will be used to gather answers to the following questions: (1) What work values and occupational aspirations are different among the selected target groups? (2) What work values and occupational aspirations are different between the target group and the NLS of Youth? (3) What relationships exist among the work values and occuational aspirations of the target groups? (4) What relationships exist between the work values and occupational aspirations of the target group and the NLS of Youth? and (5) Would the results of this study lead to the development of more effective alternative vocational education programs for delinquent females? Contingency tables and statistical tests (t-tests and chi-square) will be performed on the target group responses to identify significant differences between the target group responses and responses of the NLS of Youth database. A final report will be delivered.

PA8413302.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.

Project Director: Jacobs, Daniel

Organization: Associated Educational Consultants, Inc. North Allegheny Office and Research Park, McKnight and Pine Creek Roads, PO Box 15073, Pittsburgh, PA 15237.

Telephone: (412) 931-2244; 935-5580.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4001.

Funding Period: Start Date 01 Jul 83; End Date 01 Jan 84.

Fiscal Year Funding: $22,502.

Descriptors: Behavioral-Objectives. Catalogs. Equipment-Utilization. Facility-Inventory. Guides. Occupational-Surveys. Task-Analysis.

Identifiers: State. Proposal. *Laser Technician. *Vocational Technical Education Consortium States.

A catalog of performance objectives and performance guides for the job title Laser Technician will be produced using criteria set forth in the V-TECS Technical Reference Handbook. A population of incumbent workers will be identified and surveyed concerning tasks performed and tools/equipment used. Task/tool/equipment lists will be compiled and evaluated. An occupational inventory survey will be conducted and a review catalog prepared. A field review of objectives, guides, and tool/equipment designations will be conducted. A project domain report and a final catalog will be prepared and submitted.

PA8413303.

The Development of a Computer-compatible Supervised Occupational Experience (SOE) Record System for Vocational Agriculture.

Project Director: Williams, William

Organization: The Pennsylvania State University 501 J. O. Keller Building, University Park, PA 16802.

Telephone: (814) 863-0443.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $33,437.

Descriptors: Agricultural-Education. Computer-Programs. Recordkeeping.

Identifiers: State. Proposal. *Supervised Occupational Programs.

A new record system and a computer software package will be developed for various supervised occupational experience projects. Five teachers will be selected to develop a new record book format and develop a computer program that will be functional and compatible with a manual system. The new system will be started in the five schools represented by the selected teachers, and the process will be revised and adapted as necessary. Projected activities for years two and three are for vocational agriculture teachers and students to test the system and to provide teachers with inservice instruction in using the materials. Final reports will be delivered.

PA8413304.

Continuation of a Program to Develop Competency-based Vocational Education in the Two Area Vocational-Technical Schools of Chester County.

Project Director: Baillie, John K.

Organization: Chester County Intermediate Unit 24 Stanley K. Landis Building, 1530 East Lincoln Highway, Coatesville, PA 19320.

Telephone: (215) 383-3800.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4006.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $16,000.

Descriptors: Competency-Based-Education. Program-Implementation. Technical-Assistance. Vocational-Schools.

Identifiers: State. Proposal.

Competency-based curricula will be developed and implemented at two area vocational-technical schools. Technical assistance will be provided in the research, development, modification, and implementation of the curricula. Administrative procedures such as grading, record-keeping, and content validation will be developed. Students will be provided with copies of performance objectives, identifying conditions and criteria for task mastery. Project staff will develop evaluation procedures for each course and seek to expand the project by five courses. Final reports will be delivered.

PA8413305.

Competency-based Curriculum Development.

Project Director: Kach, Joseph

Organization: Lehigh County Area Vocational-Technical School 2300 Main Street, Schnecksville, PA 18078.

Telephone: (215) 799-1322.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4005.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $42,212.

Descriptors: Competency-Based-Education. Course-Descriptions. Program-Development. Program-Implementation.

Identifiers: State. Proposal.

A competency-based vocational education program will be developed and implemented at Lehigh County (PA) Area Vocational Technical School. A general course description for the approved course title will be written. Major course objectives will be listed along with a minimum of eight occupational titles that can be incorporated in the course. Task listings will be completed on an occupational grid and validated by the craft advisory committee. Performance objectives will be selected and written for each validated task with explicit conditions, behaviors, and standards. Learning steps for the performance task will be identified and sequenced. Instructional materials will be assembled and correlated, learning modules will be designed, learning activities will be identified and designed, and a student recordkeeping system will be developed to monitor student progress. A final report will be delivered.

PA8413306.

Instructional Improvement.

Project Director: Jameson, David

Organization: Indiana County Area Vocational-Technical School RD 3, Box 6A, Hamill Road, Indiana, PA 15701.

Telephone: (412) 349-6700.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4002.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $21,725.

Descriptors: Check-Lists. Competence. Employment-Qualifications. Job-Analysis. Job-Skills. Occupational-Information. Teaching-Methods.

Identifiers: State. Proposal.

Instructional improvement at the secondary level will be achieved through the identification of occupational competencies, terminal objectives, and task lists. Scopes of each course will be defined and occupational competencies validated. Terminal objectives and sequential activities for each competency will be identified. Resources to perform competencies will be determined, as well as the required task sequence. Performance tests will be constructed to assess student performance on each objective.

PA8413307.

Implementing Competency-based Vocational Education (CBVE).

Project Director: Mileca, Anthony

Organization: Eastern Westmoreland Area Vocational-Technical School 849 Hillview Avenue, Latrobe, PA 15650.

Telephone: (412) 539-9788.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4003.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,979.

Descriptors: Competency-Based-Education. Learning-Modules. Observation. Program-Implementation. School-Visitation. Task-Analysis. Teacher-Role. Vocational-Education-Teachers.

Identifiers: State. Proposal.

A competency-based vocational education program will be developed and implemented at a Pennsylvania vocational school. All school instructors will be involved in reviewing competency tasks for accuracy and validity, determining minimum level of achievement for each task, and recommending changes due to technological changes. Teachers will design and write learning activities for their courses. Some teachers will begin working on learning packages for year 2. Teachers will observe competency-based vocational education at other schools, and CBVE teachers from other schools will help project teachers in implementing CBVE in their own shops. A final report will be delivered.

PA8413308.

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture.

Project Director: Baggett, Connie

Organization: The Pennsylvania State University 111 Armsby Building, University Park, PA 16802.

Telephone: (814) 863-3824.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4007.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $22,000.

Descriptors: Agricultural-Education. Competency-Based-Education. Disabilities. Instructional-Material. Material-Development.

Identifiers: State. Proposal.

Vocational agriculture teachers throughout Pennsylvania will be surveyed for identification of existing agricultural instructional materials that have been teacher-modified or developed for teaching handicapped students in regular programs. Areas where competency-based vocational education (CBVE) instructional materials are needed then will be identified, and the needed materials will be developed by a team of vocational teachers, experts with handicapped students, local administrators, and industry personnel. Following field-testing and modification, the materials will be distributed to secondary schools.

PA8413309.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician.

Project Director: Jacobs, Daniel K.

Organization: Associated Educational Consultants McKnight and Pine Creek Roads, PO Box 15073, Pittsburg, PA 15237.

Telephone: (412) 931-2244.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4008.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $21,560.

Descriptors: Behavioral-Objectives. Curriculum-Guides. Job-Analysis. Occupational-Surveys. Robotics.

Identifiers: State. Proposal.

The job title, electromechanical (robotics) technician, will be defined with input from industry and the state department of education. A catalog of performance objectives and performance guides then will be prepared, field reviewed, revised, and printed. To accomplish this, project staff will identify a population of incumbent workers, the tasks they perform, and the tools and equipment they use. An occupational survey for incumbents then will be prepared listing tasks by duty area, tools and equipment, and background information. The writing team will analyze and determine the significance of the data.

PA8413310.

Competency-based Vocational Education (CBVE) Curriculum Development and Implementation—Five-year Plan.

Project Director: Hampsey, Michael

Organization: Crawford County Area Vocational-Technical School 860 Thurston Road, Meadville, PA 16335.

Telephone: (814) 724-6024.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4002.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $26,658.

Descriptors: Competency-Based-Education. Course-Content. Job-Analysis. Program-Implementation.

Identifiers: State. Proposal.

Craft committees will be maintained to help identify the changing needs of the program, and the scope of the course will be redefined using the Dictionary of Occupational Titles and other updated data. Job analysis objectives will include validating occupational competencies, identifying valid terminal performance objectives and sequential performance steps for each task, determining resources required to perform the tasks, and determining the required task sequences. Student performance will be assessed through criterion-referenced tests. To implement the program, the instructors will follow instruction sheets developed as a guide for the activities listed on the instructor progress chart. The curriculum coordinator will work with the instructor on an individual basis to implement the CBVF curriculum program and will research and purchase curriculum materials for the instructor. Instructor progress will be recorded on the established progress chart. The craft committee will validate curriculum materials. A final report will be delivered.

PA8413311.

Development and Dissemination of Statewide Newsletter for Vocational Personnel Who Serve the Handicapped Students.

Project Director: Bicanich, Eleanor

Organization: Indiana University of Pennsylvania Reschini House, Indiana, PA 15705.

Telephone: (412) 357-4434.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4004.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $28,000.

Descriptors: Disabilities. Information-Dissemination. Newsletters. Secondary-School-Students.

Identifiers: State. Proposal.

A newsletter will be printed and disseminated every other month to provide (1) information about the handicapped, as well as services and curriculum materials available to vocational teachers; (2) a vehicle for exchange of successful programs, methodology, strategy, and ideas; (3) information about state and federal legislation; and (4) a source of funding available. Production guidelines to be established will include identification of the following: effective layouts, essential contact, experts in the field to serve as writers, printing facilities, and mailing lists. The advisory committee then will provide feedback on the format and content of the publication and will evaluate the product. A final report will be delivered.

PA8413312.

Development, Adaptation, and Modification of Curriculum

Materials for Limited English-speaking Students.

Project Director: Holmes, Marion

Organization: Philadelphia City School District Twenty-first and the Parkway, John F. Kennedy Center, Philadelphia, PA 19103.

Telephone: (215) 785-3802.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4005.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $11,585.

Descriptors: Computer-Software. Limited-English-Speaking. Material-Development. Secondary-School-Students.

Identifiers: State. Proposal.

Supportive, computer-based curriculum materials will be developed and a printed form binder of the complete program material provided for teachers of limited-English-speaking (LES) students. Printed, reproducible handouts of lessons also will be provided. In cooperation with the School District Research and Evaluation Staff, project staff will evaluate the effectiveness of the materials. Implementation activities will include completion of a specific design, identification and extraction of technical and technically related vocabulary with which students may experience difficulty, and development of specific illustrations or other graphics of the terms to be programmed. Definitions will be adapted and modified to meet the comprehension level of LES students, and syllabication and phonetic treatment of often used technical and technically related terms will be provided. Program tests then will be developed and other evaluation guidelines and tools established. The materials developed will be field-tested by teachers in the vocational support services program. A final report will be delivered.

PA8413313.

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317).

Project Director: Wircenski, Jerry

Organization: The Pennsylvania State University 501 Keller Building, University Park, PA 16802.

Telephone: (814) 865-0453.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4006.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $28,415.

Descriptors: Delivery-Systems. Disadvantaged. Educational-Practices. Information-Dissemination. Newsletters. Secondary-School-Students. Vocational-Education-Teachers.

Identifiers: State. Proposal.

Programming information, curriculum materials, instructional resources, exemplary approaches, and evaluation strategies, etc. which have proved effective with disadvantaged learners, will be solicited from the educational community. This information will be compiled in six monthly newsletters to be sent to administrators, teachers, counselors, and others. The information resources in these newsletters will be appropriate for photocopying and for use in schools, workshops, and conferences. A final report will be delivered.

PA8413314.

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305).

Project Director: Marley, Richard G.

Organization: Middle Bucks Area Vocational-Technical School Old York Road, Box 317, Jamison, PA 18929.

Telephone: (213) 343-2480.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 93-4003.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $6,138.

Descriptors: Competency-Based-Education. Individualized-Instruction. Inservice-Teacher-Education. Management-Systems. Program-Development. Systems-Development.

Identifiers: State. Proposal.

Instructional program contents will be identified for each student, and a learning management system will be designed. Additionally, course evaluation will be conducted. For each activity, four small group instructional sessions will be conducted to provide for individualization to meet each instructor's needs. Additional sessions will be provided to groups or individuals as necessary to accomplish the established goals. The twenty-eight instructors involved will enter a contractual agreement with the supervisor, who will provide needed instructional resources. A final report will be delivered.

PA8413315.

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation).

Project Director: Polto, John

Organization: Dauphin County Area Vocational-Technical School 6001 Locust Lane, Harrisburg, PA 17109.

Telephone: (717) 652-3170.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4011.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $35,138.

Descriptors: Competency-Based-Education. Mastery-Learning. Occupational-Clusters. Program-Development. Program-Implementation.

Identifiers: State. Proposal.

Twenty teachers will be involved in the curriculum development project in which competency task lists will be developed and validated for at least fifteen occupational areas. Learning activities, experiences, and jobs to support the development or mastery of the competency tasks will be designed for each occupational area, information and theory necessary in relation to the tasks will be identified. Involved teachers will develop and validate with their craft advisory committees a competency task list for their occupations. In addition, a record of individual student progress will be developed and maintained, and opportunities for articulation will be established among secondary and postsecondary programs. Inservice programs will be provided for teaching staff to develop the skills necessary to outline instruction and manage competency-based instruction, and a basis will be provided for teachers to request equipment purchase or facility modification. Also, prospective employers will receive documentation of the skills each student possesses. Finally, instruction will be planned in modules to allow for varied interests and abilities of students. The curriculum facilitator employed will develop, plan, and outline the system to serve as a guide to the teachers involved. A final report will be delivered.

PA8413316.

Development of a Competency-based Vocational Education Individualized Education Program (IEP) Model.

Project Director: Darpinski, Andrew

Organization: Bloomsburg University Main and Penn Streets, Navy Hall, Bloomsburg, PA 17815.

Telephone: (717) 389-4119.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4009.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $18,900.

Descriptors: Competency-Based-Education. Individualized-Education-Programs. Models.

Identifiers: State. Proposal.

The model provided will be usable in all vocational education programs in the state. Vocational instructors wll receive assistance in the development, implementation, and evaluation of the model, which will be field-tested to systematize a procedure that provides educational input and curriculum direction for the instructors. Development activities will include identifying shops and instructors and assessing curriculum, students, and the instructor. A pilot test will be conducted in a shop with handicapped students. The model then will be field-tested. A final report will be delivered.

PA8413317.

Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.

Project Director: Holmes, Marion

Organization: School District of Philadelphia John F. Kennedy Center, 734 Schuylkill Avenue, Philadelphia, PA 19146.

Telephone: (215) 875-8823.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4007.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $44,153.

Descriptors: Competency-Based-Education. Long-Range-Planning. Management-Teams. Program-Implementation. School-Districts.

Identifiers: State. Proposal.

In implementing competency-based vocational education throughout Pennsylvania by 1985, project staff will acquaint teachers and administrators with the rationale for such implementation, means for improving programs by using Vocational-Technical Education Consortium of States (V-TECS) or other validated resources, and the formal development of competency-based programs that are appropriate for all students. Teachers and administrators will be trained in locating V-TECS or similar validated materials, and a local evaluation mechanism will be developed for this training program. Additionally, a management team will be established for long-range continuation of competency-based vocational education implementation. Finally, computer literacy will be introduced into the curriculum. Administrative staff from the Office of Vocational Education and a school-based curriculum team wil provide the mechanism for developmental consistency on a city-wide basis and within the school unit. A final report will be delivered.

PA8413318.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).

Project Director: Miller, Dolores

Organization: Temple University RA-447, Department of Vocational Education, Philadelphia, PA 19122.

Telephone: (215) 787-6197.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4008.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $32,854.

Descriptors: Competency-Based-Education. Field-Tests. Instructional-Materials. Limited-English-Speaking. Secondary-School-Students. Summative-Evaluation.

Identifiers: State. Proposal.

In the second project phase, print and nonprint competency-based materials developed in phase 1 will be field-tested and evaluated. After revision, based on feedback from the field test, the materials will be made available to state intermediate and local level educators. Determination of priorities for development of materials will be accomplished through contact with the local school districts in the eastern regions of Pennsylvania which have been identified as having a large number of limited-English-proficient students enrolled in vocational programs. Contracts will be made with appropriate consultants to assist with material development. Project staff will cooperate with the staff of the Multi-lingual Education Resource Information and Training Center (MERIT) at Temple University and with other agencies in identifying consultants as interpreters, who, with program staff, will make on-site visits to local schools to assess needs. The interpreters and a graphic artist will develop additional print and nonprint materials. A final report will be delivered.

PA8413319.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System.

Project Director: Clark, Daniel

Organization: Altoona Area Vocational-Technical School 1500 Fourth Avenue, Altoona, PA 16603.

Telephone: (814) 946-8455.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4010.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,343.

Descriptors: Coordination. Financial-Support. Information-Dissemination. Program-Implementation. Systems-Approach.

Identifiers: State. Proposal.

Resources will be provided to implement a systematic plan of action, and a program of support will be provided to introduce statewide curriculum priorities, coordinate activities, and encourage cooperative endeavors. Study committees will receive support in reviewing and analyzing issues related to a statewide program of curriculum development and dissemination, as needs arise for advice and assistance from individuals from outside the state bureau of vocational education. Financial support will be provided for resource personnel, travel, materials, costs of convening groups, and needed resources to accomplish these objectives. Also, a dissemination plan will be delivered.

PA8413320.

Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).

Project Director: Gleason, James

Organization: The Ohio State University IDECC Inc., 1564 West First Avenue, Columbus, OH 43212.

Telephone: (614) 486-6708.

Sponsoring Agency: Pennsylvania State Dept. of Education, Harrisburg.

Contract/Control No.: CN: 85-4012.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,625.

Descriptors: Consortia. Professional-Development. Professional-Organizations.

Identifiers: State. Proposal. *Distributive Education Clubs of America. *Interstate Distributive Education Curriculum Consortium.

Maintaining membership in the Interstate Distributive Education Curriculum Consortium (IDECC) will provide Pennsylvania with a 40 percent discount on all products and services: computer services, new and revised learning activity packages, Distributive Education Clubs of America (DECA)-related materials, audiovisual aids (a slide-tape presentation), a task-based training plan, management materials, and teacher education materials. IDECC staff also will provide consulting and inservice training at reduced rates. Other benefits include free materials from each teacher education institution and state department of education and fully reimbursed participation in the annual consortium meeting and professional workshop. Additionally, members receive free mailing of 'IDECC Ideas' and free loan of materials for exhibits and conferences. A final report will be delivered.

South Carolina

Research (Sec. 131)

SC8413101.
Information Distribution Plan.
Project Director: Todd, Amelia B.
Organization: South Carolina State Department of Education Office of Vocational Education, Research Coordinating Unit, Rutledge Building, Room 916-B, 1429 Senate Street, Columbia, SC 29201.
Telephone: (803) 758-2358.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-01, SC8413101.
Funding Period: Start Date 01 Aug 83; End Date 29 Jun 84.
Fiscal Year Funding: $500.
Descriptors: Data-Analysis. Data-Collection. Decision-Making. Information-Disseminaton. Information-Retrieval. Systems-Development.
Identifiers: State. Proposal.

A data analysis/consolidation system will be devised for distribution to school districts and state-level decision makers. Types of data routinely collected will be identified. A committee of local education agency and state department of education personnel will determine the relevancy and usefulness of data elements for decision making. Retrieval and reporting format and procedures will be planned. A final report describing procedures, results, and recommendations will be delivered.

SC8413102.
Marketing and Distributive Education Curriculum Guide Field Review.
Project Director: Todd, Amelia B.
Organization: South Carolina State Department of Education Office of Vocational Education, Research Coordinating Unit, Rutledge Building, Room 916-B, 1429 Senate Street, Columbia, SC 29201.
Telephone: (803) 758-2358.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-02 SC8413102.
Funding Period: Start Date 01 Sep 83; End Date 03 Feb 84.
Fiscal Year Funding: $1,000.
Descriptors: Curriculum-Evaluation. Curriculum-Guides. Distributive-Education. Field-Tests. Marketing.
Identifiers: State. Proposal.

The marketing and distributive education curriculum guide will be field reviewed in terms of comprehensiveness, clarity, and usefulness. Revisions will be made and a final report delivered.

SC8413103.
Trades and Industry Technical Skill Examinations Assessment and Revision.
Project Director: Todd, Amelia B.
Organization: South Carolina State Department of Education Office of Vocational Education, Rutledge Building, Room 916-B, 1429 Senate Street, Columbia, SC 29201.
Telephone: (803) 758-2358.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Funding Period: Start Date 01 Jul 83; End Date 22 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Content-Analysis. Job-Skills. Teaching-Skills. Test-Format. Test-Items. Test-Reviews. Tests. Trade-and-Industrial-Education.
Identifiers: State. Proposal.

Three to five trade and industrial technical skill examinations for prospective teachers will be reviewed, and three to five will be revised. Revision will include the following four phases: (1) content validation, (2) determination of test characteristics through field-testing, (3) criterion-related validation, and (4) determination of the appropriate usage of each test for certification. Review will be conducted using a table of specifications and the judging of the congruence of test items. A final report will be delivered.

Curriculum Development (Sec. 133)

SC8413301.
Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide.
Project Director: Gregory, M. R.; And Others
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-05 SC8413301.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,800.
Descriptors: Behavioral-Objectives. Curriculum-Guides. Learning-Activities. Plumbing. Resource-Materials.
Identifiers: State. Proposal. *Vocational Technical Education Consortium States.

A V-TECS guide will be developed for plumbing. The guide will contain duty, task, performance objectives, performance guide, resources (references, tools, and equipment), learning activities, and evaluation standards. The guide will be field reviewed by teachers and disseminated to plumbing instructors.

SC8413302.
Cosmetology—Vocational Education Consortium of States (V-TECS) Guide.
Project Director: Gregory, M. R.; And Others
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-06 SC8413302.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,800.
Descriptors: Behavioral-Objectives. Cosmetology. Curriculum-Guides. Learning-Activities. Resource-Materials.
Identifiers: State. Proposal. *Vocational Technical Education Consortium States.

A V-TECS guide will be developed for cosmetology. The guide will contain duty, task, performance objectives, performance guide, resources (references, tools, and equipment), learning activities, and evaluation standards. The guide will be field reviewed by teachers and disseminated to cosmetology instructors.

SC8413303.
Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
Project Director: Gregory, M. R., And Others
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-07 SC8413303.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,800.

Descriptors: Behavioral-Objectives. Curriculum-Guides. Learning-Activities. Machine-Tool-Operators. Resource-Materials.
Identifiers: State. Proposal. *Machine Shop. *Vocational Technical Education Consortium States.

A V-TECS guide will be developed for machine shop. The guide will contain duty, task, performance objectives, performance guide, resources (references, tools, and equipment), learning activities, and evaluation standards. The guide will be field reviewed by teachers and disseminated to machine shop instructors.

SC8413304.
Vocational Mathematics in Trade and Industrial Education.
Project Directer: Hayden, E. T.; And Others
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-08 SC8413304.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $3,000.
Descriptors: Basic-Skills. Instructional-Materials. Mathematics. Trade-and-Industrial-Education.
Identifiers: State. Proposal. *Computational Skills.

Instructional materials will be designed and developed to help vocational students develop a basic competency in computational skills. The project director and teacher committee will define the needed skills and develop the materials. All products will be field reviewed by teachers before dissemination to all trade and industrial programs in South Carolina.

SC8413305.
Prevocational Education Module Revision—Phase 3.
Project Director: Moore, E. Cortez
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-09 SC8413305.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,800.
Descriptors: Emerging-Occupations. Modules. Prevocational-Education. Teaching-Guides. Technology.
Identifiers: State. Proposal.

Approximately twenty prevocational modules will be revised to make them more in line with technology and/or emerging occupations. New modules will be prepared where needed. The project director and teacher committee will review existing materials and revise or prepare new materials as needed. All products will be field reviewed by teachers. One instructor guide and ten student guides will be supplied to each program.

SC8413306.
Salesmanship.
Project Director: Gregory, M. R.; Coffety, P. T.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-10 SC8413306.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,200.
Descriptors: Competency-Based-Education. Curriculum-Guides. Salesmanship.
Identifiers: State. Proposal. *Vocational Technical Education Consortium States.

A competency-based curriculum guide for salesmanship will be prepared, based on V-TECS (Vocational Technical Education Consortium of States) catalogs where possible. Teachers will field review the guides before revision and distribution. Guides will be distributed to marketing and distributive education instructors in South Carolina.

SC8413307.
Supermarket Operations.
Project Director: Gregory, M. R.; Coffery, P. T.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-11 SC8413307.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $2,000.
Descriptors: Competency-Based-Education. Distributive-Education. Food-Stores. Instructional-Materials. Marketing. Units-of-Study.
Identifiers: State. Proposal. *Supermarket Operations.

A competency-based instructional unit for supermarket operations will be designed and produced for the grade 12 level. A teacher committee will prepare a copy to be field reviewed by teachers before dissemination to marketing and distributive education instructors in South Carolina.

SC8413308.
Family Economics—Modules.
Project Director: Livingston, M. E.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-12 SC8413308.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $500.
Descriptors: Consumer-Economics. Home-Economics-Education. Modules.
Identifiers: State. Proposal.

Final copies of the family economics modules will be prepared based on previous field reviews by teachers. Teachers will field review the modules again before final printing. One set of the modules will be delivered to each home economics program in South Carolina.

SC8413309.
Foods Modules.
Project Director: Livingston, M. E.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-13 SC8413309.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $500.
Descriptors: Food. Home-Economics-Education. Modules.
Identifiers: State. Proposal.

Final copies of the foods modules will be prepared based on previous field reviews by teachers. Teachers will field review the modules again before final printing. One set of the modules will be delivered to each home economics program in South Carolina.

SC8413310.
Health Occupations Education I (Revision).
Project Director: Hayden, E. T.; James, B.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.

Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-14 SC8413310.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,500.
Descriptors: Allied-Health-Occupations. Allied-Health-Occupations-Education. Behavioral-Objectives. Modules. Task-Analysis.
Identifiers: State. Proposal.

The twenty-four Health Occupations Education modules will be revised and updated. Existing tasks and performance objectives will be reviewed by a teacher committee. Revised modules will be field reviewed and distributed to health occupations instructors in South Carolina.

SC8413311.
Data Entry Operators—Sequenced Catalog.
Project Director: Hayden, E. T.; Kelly, A.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-15 SC8413311.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Business-Education-Teachers. Catalogs. Data-Processing-Occupations. Sequential-Approach.
Identifiers: State. Proposal. *Data Entry Operators.

The data entry operators catalog will be ordered in an instructional sequence for use by business education instructors. A teacher committee will review tasks and performance objectives to determine the recommended instructional sequence. Final copies of the catalogs will be delivered to business education teachers in South Carolina.

SC8413312.
Computer Operator—Sequenced Catalog.
Project Director: Hayden, E. T.; Kelly, A.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-16 SC8413312.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Business-Education-Teachers. Catalogs. Computers. Sequential-Approach.
Identifiers: State. Proposal. *Computer Operator.

The computer operator catalog will be ordered in an instructional sequence for use by business education instructors. A teacher committee will review tasks and performance objectives to determine the recommended instructional sequence. Final copies of the catalogs will be delivered to business education teachers in South Carolina.

SC8413313.
Occupational Hazards in a Business Office.
Project Director: Hayden, E. T.; Kelly, A.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-17 SC8413313.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,200.
Descriptors: Equipment-Maintenance. Lesson-Plans. Occupational-Safety-and-Health. Office-Machines. Safety-Education. Transparencies.
Identifiers: State. Proposal. *High Technology.

A lesson plan and a set of transparency masters will be prepared that address office safety. Topics will include: (1) storage and use of flammable office fluids, (2) placement of office furniture and equipment, (3) precautions for use of high technology equipment, and (4) safe use and maintenance of office equipment. Preliminary copies of the materials will be developed during FY 1984. Review, revision, duplication, and dissemination will be accomplished during FY 1985. One set of the masters will be sent to each business education program in South Carolina.

SC8413314.
Swine Farmer—Sequence Tasks.
Project Director: Stover, Frank R.
Organization: South Carolina Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-2163.
Sponsoring Agency: UZ080311.
Contract/Control No.: PN: VCRU-84-18, SC8413314.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Agricultural-Education. Agricultural-Production. Animal-Husbandry. Catalogs. Farmers. Livestock. Sequential-Approach.
Identifiers: State. Proposal. *Swine.

The Swine Farmer catalog will be ordered in an instructional sequence for use by agriculture instructors. A teacher committee will review tasks and performance objectives to determine the recommended instructional sequence. Final copies of the catalogs will be delivered to agriculture teachers in South Carolina.

SC8413315.
Cattle Rancher—Sequenced Catalog.
Project Director: Stover, Frank R.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-2163.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-19 SC8413315.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,000.
Descriptors: Agricultural-Education. Agricultural-Production. Animal-Husbandry. Catalogs. Livestock. Sequential-Approach.
Identifiers: State. Proposal. *Cattle. *Cattle Ranchers. *Ranching.

The cattle rancher catalog will be ordered in an instructional sequence for use by agricultural education instructors. A teacher committee will review tasks and performance objectives to determine the recommended instructional sequence. Final copies of the catalog will be delivered to agriculture instructors in South Carolina.

SC8413316.
Ways of Law.
Project Director: Hayden, E. T.; Kelly, A.
Organization: South Carolina State Department of Education Office of Vocational Education, Ninth Floor Rutledge Building, Columbia, SC 29201.
Telephone: (803) 758-5971.
Sponsoring Agency: South Carolina State Dept. of Education, Columbia.
Contract/Control No.: PN: VRCU-84-20 SC8413316.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $1,100.
Descriptors: Alcohol-Education. Drug-Education. Insurance. Legal-Responsibility. Lesson-Plans. Magnetic-Tape-Cassettes.
Identifiers: State. Proposal. *Business Law. *Hazardous Wastes.

Lesson plans and cassette tapes will be developed for use in the Business Law course. Plans and tapes will be reviewed, revised, duplicated, and disseminated by the project director, two teachers, and an outside consultant. The plans and tapes will focus on (1) hazardous chemical waste, (2) employment law, (3) auto insurance, (4) warrants/products liability, (5) drugs and alcohol, and (6) minors and the law.

Teachers will field review all products. One set of all materials will be delivered to each business education program in South Carolina.

Tennessee

Exemplary and Innovative (Sec. 132)

TN8413201.
Vocational Support Services Project.
Project Director: Miller, Dennis C.
Organization: Tri-County Vocational School PO Box 214, Highway 151, Red Boiling Springs, TN 37150.
Telephone: (615) 699-2226.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $30,000.
Descriptors: Career-Counseling. Cooperative-Education. Employment-Opportunities. Employment-Qualifications. Entry-Workers. Information-Services. Job-Skills. Library-Materials. Resource-Materials. School-Business-Relationship. Videotape-Recordings. Work-Experience-Programs.
Identifiers: State. Proposal. *Hands on Experience.

Vocational support services for students, counselors, and administrative personnel will be provided. Students will be familiarized with area job opportunities, hiring practices, and entry-level skills. Counselors will be informed of vocational programs available to students. Communication will be improved between schools and the business community through newsletters, in-class programs, and expanded use of craft advisory committees. A resource library of videotapes on local job opportunities will be built in each school. A cooperative work experience program will be initiated. A workshop stressing hands-on experience will be provided for administrators. Evaluation will be accomplished by the supervisors of instruction, state office personnel, and an independent evaluator. A handbook documenting program activities will be disseminated.

TN8413202.
The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools.
Project Director: Morris, Herb
Organization: Memphis City Schools 2597 Avery Avenue, Memphis, TN 38112.
Telephone: (901) 454-5295.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $15,000.
Descriptors: Curriculum-Development. Curriculum-Guides. Entrepreneurship. Pilot-Projects. Program-Development. Program-Implementation. Teaching-Methods.
Identifiers: State. Proposal.

Classroom teachers will develop instructional strategies and curriculum guides for the implementation of pilot entrepreneurship programs. High school students in various occupational programs and adult students from diverse social-economic backgrounds will be enrolled in the programs. Subject areas will include marketing and distributive education, trade and industrial education, home economics education, and office education. Courses will be pilot tested in an urban high school and in vocational technical centers. A copy of each program format will be delivered.

TN8413203.
Scott County Computer Assisted Vocational Education Program.
Project Director: Lay, Mike
Organization: Scott High School Huntsville, TN 37756.
Telephone: (615) 663-2801.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.
Fiscal Year Funding: $836,549.
Descriptors: Computer-Assisted-Instruction. Computer-Programs. Faculty-Development. Material-Development. Microcomputers. Purchasing.
Identifiers: State. Proposal.

Microcomputers will be acquired and a computer training program implemented for all vocational staff. Computer software then will be developed for increased prevocational orientation and guidance and for restructuring the curriculum to provide computer-assisted vocational instruction. Projected plans are to acquire twelve to fifteen microcomputers, enabling expansion of the programs and services to all students, and to develop a course for computer technician.

TN8413204.
Youth Service Job Skills Training and Employment.
Project Director: Mowery, Donald E.
Organization: Youth Service USA 314 South Goodlett, Memphis, TN 38117.
Telephone: (901) 454-4900.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Contract/Control No.: CN: GR-3974 RFS 331.45-0166.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $46,354.
Descriptors: Agency-Cooperation. Community-Involvement. Disadvantaged-Youth. Job-Skills.
Identifiers: State. Proposal. Impact Evaluation.

Provision of job skills training and employment for disadvantaged youth will be expanded through the use of military in-kind resources in the Memphis-Shelby County area. At least three communities near military facilities will receive assistance in developing support for such a program uniting community resources. Youth Service USA will work cooperatively with existing vocational programs and with Jobs for High School Graduates. Using linkage established by Youth Service USA, top level contacts will be made in each city with groups to be included in the public and private sector partnerships. Evaluation will be conducted by Social Services Delivery Systems using data collected at each site to determine economic impact of the program on participants.

TN8413205.
Job Training: Development and Evaluation of an Assessment Procedure.
Organization: Chattanooga State Technical Community College 4501 Amnicola Highway, Chattanooga, TN 37406.
Telephone: (615) 622-6262.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Contract/Control No.: CN: ID-1898, RFS 331.45-0209.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $13,050.
Descriptors: Data-Analysis. Educational-Needs. Job-Training. Needs-Assessment. Networks.
Identifiers: State. Proposal.

A needs assessment procedure to determine perceived need for job training and related services will be developed and tested. Within the project area, a prime sponsor network and a statistically valid sample of residents will be developed. The needs assessment procedure will be developed and tested and resulting data summarized via computer analysis. Prime sponsors will review survey results and revise procedures for expanded state utilization. A summary of project findings, procedures, results, interpretation, and costs will be published and disseminated.

TN8413206.
Project VOICE (Vocational Interpretation and Curriculum Enrichment) (Continuation).
Organization: Claiborne County Board of Education PO Box 179, Tazewell, TN 37879.
Telephone: (615) 626-3543.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $28,945.

Descriptors: Basic-Skills. Job-Skills. Mathematics-Instruction. Workbooks.

Identifiers: State. Proposal.

In this continuing project, mathematics skills and vocational skills are presented in workbook format designed to improve retention and to prepare students to solve problems. Objectives are presented in the same format and same language as the Tennessee Proficiency Test. Products will include a mathematics pretest; nine workbooks, each for a different vocational area; evaluation sheets; a Project VOICE workbook for additional practice with each objective; and the Project VOICE management system, consisting of the individual student profile and the student class list.

TN8413208.

Unity for a Quality Vocational Delivery System in the Metropolitan Nashville Community.

Organization: Metropolitan Public Schools 2601 Bransford Avenue, Nashville, TN 37204.

Telephone: (615) 832-2550.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $154,657.

Descriptors: Articulation-Education. Delivery-Systems. Labor-Force-Development. School-Surveys.

Identifiers: State. Proposal.

A comprehensive program inventory will be conducted of vocational delivery systems within the metropolitan Nashville, Davidson County community. Also, improved interagency and community involvement and cooperation in vocational planning will be fostered. Finally, a manpower and supply demand analysis involving business and industry will be conducted. Available programs will be surveyed to identify direct program linkages to metropolitan Nashville offerings, and local instructors will be assisted in analyzing curriculum content. Other activities will include providing for joint planning and agreement for articulation among all levels; establishing a mechanism for cooperative and continued input and recommendation for program changes based on feedback and exchange among the systems; and analyzing the extent to which vocational programs offered are current, relevant, and responsive to local manpower needs. Materials produced will provide information about program offerings, program competencies, course objectives, sex equity, and articulation. Public relations materials and needs assessment survey instruments also will be delivered. The resulting articulation model will ensure that secondary and postsecondary instruction will allow students to move between levels, be placed directly into the job market, or make a meaningful career choice.

TN8413209.

Hancock County Entrepreneurial Training Program.

Organization: Hancock County Board of Education PO Box 187, Main Street, Sneedville, TN 37869.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $22,550.

Descriptors: Disadvantaged-Youth. Economically-Disadvantaged. Employment-Opportunities. Entrepreneurship. Evaluation-Methods. Job-Skills. Occupational-Aspiration. Program-Evaluation. Skill-Development.

Identifiers: State. Proposal.

The Hancock Entrepreneurial Training Program will broaden the occupational aspirations and opportunities for economically handicapped youth by providing them with knowledge and skills for establishing their own business. The evaluation outline will include elements for review, cover all aspects of the project including planning, and provide framework for the project and the evaluation. Internal project monitoring will provide information upon which to (1) base project decisions, (2) guide project management, and (3) assist in dissemination of project ideas and activities. The internal evaluation will lead to development of an information base to assist in the spread of this program model to other sites.

TN8413210.

Articulation Project in Engineering Technology Career Awareness.

Organization: Nashville State Technical Institute 120 White Bridge Road, Nashville, TN 37209.

Telephone: (615) 741-1226.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.

Fiscal Year Funding: $39,990.

Descriptors: Articulation-Education. Career-Awareness. Engineering-Technology. School-Business-Relationship. Workshops.

Identifiers: State. Proposal. *Emerging Technologies. *Hands On Experience. *High Technology.

An engineering technology career awareness program will be designed to link secondary schools and postsecondary technical institutes with business and industry. Workshops for area high school students will offer hands-on experience in high technology fields. A conference for mathematics, science, and vocational teachers; counselors; administrators; and representatives of business and industry will be held to explore emerging technologies. A high technology newsletter will be published that will promote local high technology industries.

TN8413211.

Exemplary Software.

Organization: Nashville State Technical Institute 120 White Bridge Road, Nashville, TN 37209.

Telephone: (615) 741-1226.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $86,761.

Descriptors: Computer-Programs. Guidelines. Learning-Modules. Microcomputers. Program-Evaluation. Technical-Education.

Identifiers: State. Proposal.

The uses for microcomputer software in vocational/technical education will be explored. Guidelines for using software will be developed, as well as ways to develop a comprehensive software center. Application modules for selected software will be written. Vocational/technical educators and students will be trained in the use of these modules. Continuing education opportunities for educators and students using software will be devloped. Products to be delivered include (1) a software evaluation sheet, (2) application modules, (3) application training sessions, (4) a listing of software available in the Nashville area, (5) articles about the project to be published in vocational/technical journals, and (6) a presentation about the project which can be delivered at vocational/technical meetings.

TN8413212.

Articulation between Secondary and Postsecondary Vocational-Technical Education.

Organization: State Technical Institute at Knoxville PO Box 19802, Knoxville, TN 37939-2802.

Telephone: (615) 583-6103.

Sponsoring Agency: Tennessee State Dept. of Education, Nashville.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $40,000.

Descriptors: Admission-Criteria. Advanced-Placement. Articulation-Education. Counseling-Services. High-Schools. Models. Pilot-Projects. Resource-Centers. Vocational-Schools.

Identifiers: State. Proposal.

Year 2 activities of an articulation program between high schools and vocational schools and the State Technical Institute at Knoxville will be conducted. The possibility of granting nontraditional credit to advanced students will be investigated. Student assessment activities will be improved. The career resource center will be expanded and the academic advising program monitored and improved. An articulation model will be developed. A pilot program of entrance standards will be implemented in two curriculum programs. A handbook containing all materials will be disseminated in year 3.

TN8413213.

Vocational-Technical Information Program.

Project Director: Essin, Sally
Organization: Tri-Cities State Technical Institute PO Box 246, Blountville, TN 37617.
Telephone: (615) 323-3191.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Funding Period: Start Date 01 Oct 83; End Date 30 Sep 84.
Fiscal Year Funding: $30,000.
Descriptors: Audiovisual-Aids. Career-Choice. Decision-Making. Employment-Opportunities. Pamphlets.
Identifiers: State. Proposal.

Sixteen career information pamphlets and sixteen generic audiovisual products will be developed to assist secondary and postsecondary vocational studies in career decision making. The audiovisual materials will be demonstrated at area secondary schools, and administrators will use an evaluation sheet to rate the materials' usefulness. The pamphlets will coordinate with the presentations and will be given to students. A testing instrument will be provided which coordinates with the audiovisual materials.

Curriculum Development (Sec. 133)

TN8413207.
Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
Project Director: Bales, Joyce
Organization: Greeneville City School System PO Box 30, Greeneville, TN 37743.
Telephone: (615) 638-8138.
Sponsoring Agency: Tennessee State Dept. of Education, Nashville.
Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.
Fiscal Year Funding: $43,950.
Descriptors: Academically-Gifted. Career-Exploration. Conservation-Education. Modules. Orientation. Parent-Participation.
Identifiers: State. Proposal. *Academically Able Exploring Vocations Emerging New Tech.

The AA-EVENT (Academically Able-Exploring Vocations in Emerging and New Technologies) program will be continued. In a summer workshop, teachers will have on-site work experiences with cooperating agencies. Class modules will be reviewed, evaluated, and refined as needed. Follow-up information will be collected and the data analyzed. An orientation will be held for AA-EVENT students and parents, and AA-EVENT materials will be disseminated. Final products to be delivered will include a notebook of modules, demonstrations of conservation projects, and samples of training agency agreements.

Texas

Research (Sec. 131)

TX8413101.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.

Project Director: Cuiclasure, David F.

Organization: San Antonio State Hospital and State School Box 23310, San Antonio, TX 78223.

Telephone: (512) 532-8811.

Sponsoring Agency: Texas Education Agency, Austin.

Contract/Control No.: CN: 015-918.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $45,182.

Descriptors: Computer-Oriented-Programs. Computer-Software. Educational-Television. Interaction. Man-Machine-Systems. Systems-Development. Videotape-Recordings.

Identifiers: State. Proposal.

The interactive instructional television package developed will be usable for teaching both cognitive and psychomotor skills in selected technical-vocational education subject matter. Through a literature search and use of an advisory committee to be formed of representatives from industry and education, appropriate high technology subject matter will be selected for which interactive instructional television systems are most applicable and cost effective. Support and services from industry will be obtained to develop the instructional packages using 'story board' and 'outline' approaches for limited-English-speaking students. Supporting video programs and computer software needed to accomplish the training objectives and production of a supporting training package also will be developed. The instructional design will be validated by use with students from selected locations. The computer software designed will operate the integrated instructional delivery system in which a microcomputer is interfaced with a random access videotape recorder, provide responsive student/instructional system interaction, including diagnosis of instructional needs in subject matter, prescription of remedial or enrichment subject matter content, provide automated administration and scoring of examinations, and maintenance of student records.

TX8413102.

Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas.

Project Director: Bell, Camille G.; Glosson, Linda R.

Organization: Texas Tech University Home Economics Education, Lubbock, TX 79409.

Telephone: (806) 742-3037.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $30,000.

Descriptors: Fundamental-Concepts. Home-Economics-Teachers. Job-Skills. Occupational-Home-Economics. Program-Development.

Identifiers: State. Proposal.

Curriculum concepts and skills needed by secondary occupational home economics teachers will be described, and a plan will be developed for including the identified essential elements in preservice teacher education programs. A Delphi survey will be developed and conducted of home economics education teacher educators and secondary and postsecondary occupational home economics teachers. Based upon the surveys, as well as catalog reviews and site visits to selected colleges and universites approved for vocational home economics teachers. Based upon the surveys, as well as catalog reviews and site visits to selected colleges and universities approved for vocational home economics teacher preparation, the plan for incorporating identified curriculum elements into existing or proposed courses will be developed. The plan will include a conceptual framework of elements to be included, alternatives for incorporation, and alternatives for providing necessary facilities and equipment either on campus or through cooperative efforts with the community. Quarterly and final reports will be delivered.

TX8413103.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.

Project Director: Cepica, Marvin J.

Organization: Texas Tech University Department of Agricultural Education, Box 4169, Lubbock, TX 79409.

Telephone: (806) 742-2816.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $28,438.

Descriptors: Agricultural-Education. Computer-Literacy. Computer-Software. Educational-Research. Educational-Strategies. Feasibility-Studies. Needs-Assessment.

Identifiers: State. Proposal.

Feasibility studies will be conducted by microcomputer lab staff concerning the adaptability of selected available computer software for use by vocational agriculture students and teachers; additional software needs will be ascertained. Simultaneously, teachers will be surveyed to determine inservice needs, use of existing computer hardware and software, and recommended procedures for incorporating instruction related to computers in agriculture into regular vocational agriculture programs. Vocational agriculture teachers will be provided information through inservice education to help them incorporate the instruction. Research results also will be disseminated to all agricultural education teacher training institutions. Quarterly and final reports will be delivered.

TX8413104.

Update of the Industrial Arts Rationale in Texas.

Project Director: Williamson, M. D.

Organization: North Texas State University Division of Industrial Technology, PO Box 13857, Denton, TX 76203-3857.

Telephone: (817) 565-2363.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $24,590.

Descriptors: Administrative-Policy. Administrative-Principles. Educational-Philosophy. Educational-Planning. Improvement-Programs. Industrial-Arts. Position-Papers.

Identifiers: State. Proposal.

The update will be based on the revised state industrial arts structure and national trends, and national programs standards for industrial arts will be adapted for use based on input from the industrial arts profession. An advisory committee will be formed to help plan and review the project and establish future directions. In a three-day workshop, a committee of twenty-four persons (selected from industry, supervisors, teachers, teacher educators, vocational counselors, and special education), a reading expert, and a sex equity advocate will evaluate the revised rationale statement and the national program standards for compatibility. A product will be prepared for presentation in six regional reaction seminars. Input will be summarized in a final report, one hundred copies of which will be delivered. Quarterly reports and ten copies of all project materials also will be delivered.

TX8413105.

Design of a Health Occupations Magnet Program in the Rio Grande Valley.

Project Director: Duckett, Jane M.

Organization: South Texas Independent School District 722 Morgan Boulevard, Suite G, Harlingen, TX 78550.

Telephone: (512) 425-6980.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $125,000.

Descriptors: Allied-Health-Occupations-Education. Competency-Based-Education. Curriculum-Guides. Magnet-Schools. Program-Development. School-Districts.

Identifiers: State. Proposal.

A model for a multicounty magnet school in health careers will be developed to provide several individual school districts with a health careers program; provide the health industry with competent, entry-level employees; and provide students with background knowledges and skills necessary for postsecondary study. The program will offer educational objectives developed around traditional academic skills (with emphasis on the medical, biological, and physical sciences), including computer skills. Project staff will (1) develop details for a linkage from the health industry to the magnet school in offering laboratory and clinical facilities; (2) design a master schedule of activities; (3) structure a curriculum (providing for handicapped students) with competency-based goals for each career program, including articulation of the academic care professions and medical facilities; and (4) develop a method of modifying the courses to accommodate students of limited English proficiency. Curriculum guides and facility models will be developed. An advisory committee and consortium will be appointed, composed of representatives of the patient care and allied health industry and the health education field. Then project staff will research, document, plan, and record a complete procedure for establishing and operating a health careers magnet school. Other logistical procedures include designing transportation and recruitment procedures.

TX8413106.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.

Project Director: Azari, Cynthia

Organization: Region 4 Education Service PO Box 863, Houston, TX 77001.

Telephone: (713) 462-7708.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $34,677.

Descriptors: Basic-Skills. Career-Awareness. Coping. Daily-Living-Skills. Disabilities. Dropout-Prevention. English-Second-Language. Job-Skills. Limited-English-Speaking. Research-Design.

Identifiers: State. Proposal.

A research design will be developed to improve basic skills for limited-English-speaking students, modify materials for use with handicapped students, and reduce the student dropout rate. Participants will increase career awareness and learn employability skills and coping skills. Computer-assisted courseware will be evaluated and tested with an experimental group. The group then will be surveyed and results compiled. Quarterly and final reports will be written, and a model for improving basic skills will be delivered.

TX8413107.

Fiber Optics Communications Technology.

Project Director: Brillhart, Larry

Organization: Houston Community College Technical Education Center, 4310 Dunlavy, Houston, TX 77006.

Telephone: (713) 868-0788.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $21,083.

Descriptors: Communications. Curriculum-Development. Paraprofessional-Personnel. Technological-Advancement.

Identifiers: State. Proposal. *Fiber Optics Technology.

Literature reviews, fiber optics technology users, and job/task analysis will be used to develop a curriculum for fiber optics technicians. Curriculum developers will visit users of planned fiber optics technology and attend professional technical society meetings to learn of developing trends and user applications. Quarterly and final reports will be delivered. The final report will include a recommended curriculum.

TX8413108.

Update of the Secondary Vocational Office Education Data Processing Curriculum.

Project Director: Peace, Betty; Lovelace, Bill

Organization: North Texas State University College of Education—Vocational Education, PO Box 13857, Denton, TX 76203-3857.

Telephone: (817) 565-2710.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $27,993.

Descriptors: Competency-Based-Education. Curriculum-Development. Data-Processing. Improvement-Programs. Office-Occupations-Education. State-of-the-Art-Reviews.

Identifiers: State. Proposal.

Validated competencies for a data processing curriculum, professional development needs for data processing teachers, and a state-of-the-art paper will be written. Current literature and the data processing industry will be consulted to determine the needs in the data processing field. The paper will (1) identify the needs of business and industry in the data processing field, (2) suggest materials for use with handicapped students, (3) promote equal access, (4) suggest computer applications where applicable, and (4) suggest materials for use with limited-English-speaking students. Quarterly and final reports will be delivered.

TX8413109.

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities.

Project Director: Speary, W. A.

Organization: University of Houston College of Education, Technical Education Department, 4800 Calhoun Street, Houston, TX 77004.

Telephone: (713) 749-4854.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Competency-Based-Education. Demonstrations-Educational. Distributive-Education. Evaluation-Methods. Job-Skills. Marketing. Simulation.

Identifiers: State. Proposal. Restaurant Management.

Twelve simulations and demonstrations will be developed that have evaluative criteria for measuring necessary job competencies. The occupational categories are: apparel and accessories marketing, advertising services marketing, finance and credit marketing, food marketing, general merchandising, restaurant marketing and management, and automotive and petroleum marketing. Simulations will include computer applications, videotaping, teletrainer equipment, sound-slide programs, and role playing. Validation by businesspersons will be obtained. A utilization guide developed for teachers will include suggestions for adapting materials for limited-English-speaking students. A final report will be delivered.

TX8413110.

Research to Develop a Curriculum Continuum of Prevocational Skills.

Project Director: McCarron, L.

Organization: Texas School for the Blind 100 West Forty-fifth Street, Austin, TX 78758.

Telephone: (512) 454-8631.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Dec 83; End Date 30 Jun 84.

Fiscal Year Funding: $50,000.

Descriptors: Classification. Cognitive-Processes. Developmental-Programs. Job-Skills. Models. Perceptual-Motor-Learning. Prevocational-Education. Student-Development.

Identifiers: State. Proposal.

A model will be developed for instruction of prevocational skills based on a taxonomy of sensorimotor, information processing, and critical vocational behaviors organized in a developmental continuum. A sequence of objectives will be integrated into this model to be taught students at specified grade or learning levels. The model prevocational curriculum then will be developed specifying behavioral objectives, material to be used, performance criteria, and sequence of teaching. Next, a check list will be developed for evaluating students' mastery of prevocational skills and likelihood of benefitting from vocational education classes. Effectiveness of the prevocational curriculum will be investigated by obtaining baseline measures of performance through programmatic research of thirty multihandicapped secondary education students. Both an N = 1 design and pre- and posttest repeated measures design will be used; multiple regression analysis will be applied to identify individuals who benefitted most and important functional skills that have a high association with a favorable outcome. Finally, a counselor-teacher handbook of entry-level jobs for special education students will be produced, designating particular competency levels for each job; sensorimotor, information processing, and vocational behaviors also will be indicated. A final report will be delivered.

TX8413111.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.

Project Director: Thorogood, Nellie Carr

Organization: San Antonio College Occupational Education and Technology, 1300 San Pedro, San Antonio, TX 78284.

Telephone: (512) 733-2441.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $44,958.

Descriptors: Competence. Core-Curriculum. Educational-Needs. Models. Needs-Assessment. Occupational-Information. Relevance-Education. Technological-Advancement.

Identifiers: State. Proposal.

Needs assessment design and identification of job titles, job description, and survey populations will lead to finalization of a model survey instrument appropriate for local and regional implementation. The needs analysis of five high technology industrial areas and two high technology impact areas of existing jobs will reveal training needs applicable to postsecondary instruction, with related implications for secondary levels. A listing will be compiled of current program and course high technology offerings at Texas postsecondary institutions. Also, a DACUM analysis will be completed in high demand, high technology areas to determine core, common, and unique competencies, resulting in curriculum recommendations for grades 9 through postsecondary technical education in high technology career-specific areas. Recommended activities for appropriate modifications of suggested high technology curricula for special needs populations also will be produced.

TX8413112.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).

Project Director: Hollenback, Kathryn L.; Hollenback, E. F.

Organization: North Texas State University North Texas State University Station, Denton, TX 76203.

Telephone: (817) 565-2714.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $35,000.

Descriptors: Curriculum-Evaluation. Inservice-Education. Occupational-Information. Preservice-Teacher-Education. Professional-Development. Program-Effectiveness. Research-Reports. Teacher-Education.

Identifiers: State. Proposal. *Occupational Orientation.

The occupational orientation (OO) curriculum will be reviewed to project curriculum for possible future needs, to determine preservice and inservice training needs, and to determine appropriate activities and materials for professional development in view of ongoing technoloical advancement. OO-related projects will be reviewed via validation and needs assessment instruments. Results will be analyzed and curriculum outlines suggested. Teacher education programs will be assessed and, based on findings, teacher education materials developed. Regional inservice workshops for OO teachers will be conducted as necessary. A two-part research report including regional and state inservice workshop training modules will be delivered.

TX8413113.

Model Program for Flexible Automation in Electronics Technology.

Project Director: Bergeron, Joseph L.

Organization: Austin Community College 10508A Boyer, Austin, TX 78758.

Telephone: (512) 837-4767.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $22,500.

Descriptors: Instructional-Materials. Job-Analysis. Laboratory-Manuals. Learning-Modules. Literature-Reviews. Material-Development. Teaching-Guides.

Identifiers: State. Proposal. *Flexible Automation.

A literature review including library research briefing, telephone and personal interviews, letters of request, and contacts with representatives of high technology industries will be conducted to analyze the occupational skills required for flexible automation. The continum of job tasks then will be identified, validated, and sequenced. Performance objectives and criterion-referenced measures will be developed, learning activities will be identified, and self-paced, individualized instructional modules for each task will be designed. Sufficient instructional materials for each instructional module then will be completed to teach at least 200 hours. Finally, a student laboratory manual and an instructor manual will be developed. Quarterly and final reports will be delivered.

Exemplary and Innovative (Sec. 132)

TX8413201.

An Application of Computer Graphics Curriculum to Selected Vocational-Technical Programs.

Project Director: McClurg, Gene R.

Organization: Texas State Technical Institute Route 3, Box 13, Sweetwater, TX 79556.

Telephone: (915) 235-8441.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $30,000.

Descriptors: Computer-Graphics. Computer-Software. Instructional-Materials. Program-Development.

Identifiers: State. Proposal.

At least four vocational programs will be modified to incorporate computer graphics. Instructional materials will be based on defined tasks necessary to achieve computer graphic specialties. The project will investigate the feasibilities of time sharing, loan of equipment, and using industry personnel to instruct. The materials will be field-tested in at least three postsecondary institutions, revised as needed, and delivered. Materials include teacher manuals (with guidelines for program modification and teaching methods), student manuals (including student activities), implementation procedures, a list of commercially available software and hardware, and an evaluation of the field test.

TX8413202.

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.

Project Director: Boehm, Allen O.

Organization: PO Box 619, Hillsboro, TX 76645.

Telephone: (817) 582-2555.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $30,000.

Descriptors: Computer-Oriented-Programs. Cooperative-Education. Electronics. Instrumentation. Microcomputers. Models. Robotics. Technological-Advancement. Work-Experience-Programs.

Identifiers: State. Proposal. *Cluster Concept Program. *Microelectronics.

Curriculum will be developed and training will be offered in four microelectronics cluster areas: electronics, industrial process control (instrumentation), microprocessors and microcomputers, and robotics (for high technology industries). Twenty students will be enrolled in the program which will serve as a model for the cluster concept suitable for small or rural colleges. Nine hundred to 1,000 hours will be taught in the vocational specialty and 225-250 hours in a common core. All students will participate in a common core of subject matter and will be encouraged to participate in cooperative work experience. Materials will be field-tested, evaluated and adjusted as appropriate and will include items addressing the needs of special populations. Industry representatives will be used as adjunct faculty whenever possible.

TX8413203.

A Computerized Simulation Program for State Board Examinations in Cosmetology.

Project Director: Huff, Don

Organization: Odessa College Science and Health Division, 201 West University, Odessa, TX 79762.

Telephone: (915) 335-6446.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $29,915.

Descriptors: Computer-Assisted-Technology. Computer-Software. Cosmetology. Material-Development. Microcomputers. Simulation. Testing-Programs. Tests.

Identifiers: State. Proposal. *Apple II.

A computer-simulated state board examination for cosmetology students will be developed for the Apple IIe microcomputer. The application program will be designed, programmed, documented, and tested by a trained designer-programmer and will have a bank of 1500 test questions. Through interaction with a video screen, the student will take the exam, receive a score, and receive an item analysis of the results. This will provide feedback on areas needing additional review and will indicate strengths and weaknesses of their learning experiences. The program and accompanying teaching guides and student handbooks will be evaluated at Odessa College. Copies of all materials will be delivered.

TX8413204.

Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.

Project Director: Barnes, Bill

Organization: East Texas STate University Occupational Curriculum Laboratory, Commerce, TX 75428.

Telephone: (214) 886-5120.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $64,999.

Descriptors: Disabilties. Disadvantaged. Guides. Limited-English-Speaking. Program-Validation. Special-Education. Teaching-Guides.

Identifiers: State. Proposal.

A teacher's handbook and an accompanying teacher trainer's guide will be developed and validated for vocational teachers of students with special needs. Each chapter of the handbook will be reviewed by sixty teacher trainers at two validation workshops. The teacher trainer's guide, written in Occupational Curriculum Laboratory format, will contain units corresponding to each chapter of the handbook. A final report also will be produced.

TX8413205.

High Technology Internship.

Project Director: Taylor, John; Wingo, Pat

Organization: Judson Independent School District 9142 FM 78, Converse, TX 78109.

Telephone: (512) 658-7029.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $31,698.

Descriptors: Cooperative-Programs. Individualized-Instruction. Industrial-Education. Internship-Programs. Job-Skills. School-Business-Relationship. Skill-Development. Technological-Advancement. Work-Experience-Programs.

Identifiers: State. Proposal. *Hands On Experience. Health Sciences. Open Entry Open Exit. Outlines.

Secondary level individualized instruction in high technology skills will be developed through cooperative efforts with industry. Articulation with postsecondary institutions will be developed to offer the option of open entry and exit into advanced training opportunities. On-the-job training will include hands-on learning. Preparatory classes at the high school will include computer literacy, electronics, and health sciences. Transportation to the industrial site will be provided. Classroom instruction will be based on the industrial core curriculum. Industry will evaluate each student every nine weeks. Students completing training will receive credits toward graduation requirements. Individual training outlines will be developed as well as career awareness programs for students, parents, and the community. Training diskettes relating to computer literacy will be developed, as well as slide library of all intern locations and a publicity brochure.

TX8413206.

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs.

Project Director: Koonce, Tommy R.; Foster, Phillip R.

Organization: North Texas State University Division of Industrial Technology, PO Box 13857, Denton, TX 76203-3857.

Telephone: (817) 565-2362.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $39,736.

Descriptors: Communications. Computer-Oriented-Programs. Curriculum-Development. Demonstration-Programs. Evaluation-Methods. Field-Tests. Industrial-Arts. Pilot-Projects. Technology.

Identifiers: State. Proposal. *Production Technology. *Visual Communications Education.

Pilot programs in production technology and visual communications technology (computer applications) will be prepared and implemented to demonstrate the revised and innovative exploratory industrial arts curriculum. Information for program modifications will be provided to industrial arts teachers. Workshops will be planned and pilot test participants selected. A debriefing session will complete each pilot test. Evaluation materials will be designed to answer questions about (1) modification for handicapped students; (2) equal access in all trade areas; (3) computer applications; and (4) modifications for limited-English-speaking students. Quarterly reports, newsletters on project progress, and a final report will be delivered, in addition to copies of all curriculum and evaluation materials.

TX8413207.

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.

Project Director: Flood, Kay

Organization: Odessa College 201 West University, Odessa, TX 79762.

Telephone: (915) 335-6449.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $48,638.

Descriptors: Allied-Health-Occupations-Education. Computer-Assisted-Instruction. Computer-Oriented-Programs. Computer-Software. Display-Systems. Interaction. Learning-Modules. Man-Machine-Systems. Material-Development. Radiologic-Technologists.

Identifiers: State. Proposal. *Skull Positioning.

Students will be enabled to interact with a computer video terminal through graphics to manipulate skulls for correct alignment. Specific emphasis of the positioning manipulation will be on four views: PA, axial, lateral, and waters. Through the graphics demonstration, students will learn anatomy, central ray, planes, and positioning lines associated with each view. Designed and programmed from current instructional materials in the radiologic technology program, the learning module will be divided into sections with test questions presented after each. Students may proceed to the next section by scoring 85 percent on test items. An application program also will be designed, programmed, documented, and tested on an Apple IIe microcomputer by a designed-programmer. The computer program, instructor guides, and student handbooks will be evaluated through formative and summative evaluation conducted at

Odessa College and two other institutions. Advisory committee members will review and approve major components of the learning modules. Ten copies each of the learning module, the application program, the instructor guides, and the student handbooks will be delivered.

TX8413208.

Project BASICS—Building Attitudes and Skills for Improved Career Success.

Project Director: Pliler, George E.

Organization: Education Service Center Region 15 PO Box 612 South Irene, San Angelo, TX 76902.

Telephone: (915) 658-6571.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $34,998.

Descriptors: Decision-Making-Skills. Equal-Education. Information-Dissemination. Job-Skills. Learning-Activities. Minicourses.

Identifiers: State. Proposal.

Secondary students in small rural schools will learn employability skills through a series of three- to five-hour minicourses taught by region 15 staff. With an adivsory committee of educators and one outside consultant, project staff will revise, modify, or develop and print a booklet of activities for regular and special needs students to teach employability and career decision-making skills and to promote equal access to all trade areas. Vocational counselors, full-time and part-time counselors, vocational placement coordinators, and vocational teachers will receive this booklet, as well as training for instructing secondary students in employability skills in a series of one-day regional workshops. Additionally, technical assistance will be provided in using and disseminating BASICS activities.

TX8413210.

A Computerized Instructional Program for the Child Care Industry.

Project Director: Culbertson, Elizabeth

Organization: San Antonio College Child Development Department, 1300 San Pedro Avenue, San Antonio, TX 78284.

Telephone: (512) 733-2410.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $29,934.

Descriptors: Child-Care-Occupations. Computer-Oriented-Programs. Computer-Software. Educational-Administration. Microcomputers. Simulation. Teaching-Guides. Textbooks. Workbooks.

Identifiers: State. Proposal. Discrepancy Evaluation Model.

A list of child-care administrative tasks appropriate for computer utilization will be identified, criteria-referenced performance objectives for the tasks will be written, and hardware and software will be selected. Project staff will develop a course syllabus and schedule, develop a simulation of child care administrative tasks, and team-teach a class of 12-15 child care administrators. Project evaluation will use the Discrepancy Evaluation Model. A student workbook, instructor's manual, and suggestions for maternal utilization will be provided.

TX8413298.

Educational Billingual Industrial Drafting.

Project Director: Aquilar, Martin V.

Organization: St. Philip's College 2111 Nevada Street, San Antonio, TX 78203.

Telephone: (512) 531-3463.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $29,458.

Descriptors: Bilingual-Education. Drafting. English-Second-Language. Equal-Education. Job-Skills. Industrial-Education. Limited-English-Speaking.

Identifiers: State. Proposal.

Twenty limited-English-proficient (LEP) persons will be taught industrial drafting and English. The students also will attend seminars in job-related personnel skills: filling out job applications, getting along with others, and building self-esteem and confidence. Students will be recruited and appropriate instructional materials developed. Faculty members and administrators will be recruited and taught the methodology of working with LEPs. Team teaching will be used in this one-year intensive program, which will include modification adaptable to handicapped, women, and other underserved groups. Project activities will be evaluated. The project will serve as a model for similar programs in five additional industrial programs.

TX8413304.

Curriculum Development: Postsecondary Emergency Medical Technology Paramedic.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512) 471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $49,150.

Descriptors: Allied-Health-Occupations-Education. Clinical-Teaching-Health-Professions. Emergency-Medical-Technicians. Laboratory-Manuals. Simulation. Teaching-Guides.

Identifiers: State. Proposal.

A student laboratory manual for emergency medical techniques (paramedic) will be developed for clinical simulation and/or actual clinical setting. The accompanying instructor's guide developed will include instructional strategies, student learning activities, projects, and summative evaluations. All materials will be reviewed by health professionals in educational and health settings. Adaptations for the limited English speaking will be included.

TX8413305.

Curriculum Development: Marketing and Distributive Education.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512) 471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $158,364.

Descriptors: Competency-Based-Education. Computer-Oriented-Programs. Computer-Software. Core-Curriculum. Distributive-Education. Improvement-Programs. Individualized-Instruction. Instructional-Materials. Marketing. Material-Development.

Identifiers: State. Proposal. Personal Services Occupations.

General marketing core curriculum materials will be reviewed and updated, competency profiles and training plans will be developed for the most common training positions, and the adequacy of the present food marketing series will be determined. An annotated listing of available marketing and distributive education software will be written. Competency-based individualized publications will be developed for (1) personal services markeing, (2) convenience store operations, (3) home furnishings (curtains, draperies, linens), and (4) giftware merchandising and marketing. Competencies will be determined by representatives from education, business, and industry. Where feasible, computer applications and possible modifications for handicapped and the limited English proficient will be incorporated.

Curriculum Development (Sec. 133)

TX8413301.

Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory.

Project Director: Page, Foy

Organization: Texas A&M University Agricultural Educaiton, FE Box 182, College Station, TX 77843.

Telephone: (409) 845-6601.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $566,737.

Descriptors: Competence. Curriculum-Study-Centers. Information-Dissemination. Instructional-Materials. Material-Development.

Identifiers: State. Proposal.

Curriculum material needs of public school vocational-industrial programs and agricultural programs will be determined, and center-produced materials will be developed, revised, evaluated, and disseminated to meet those needs. Materials developed will be designed to help teachers develop competencies in handicapped students and suggest modifications for use with limited-English-speaking students. Materials will address productivity, private enterprise, entrepreneurship, and employment opportunities, as well as computer applications where appropriate. All materials (skill lessons with job and task sheets, information lessons, competency-based publications, competency profiles, lesson plans, instructional transparencies, colored slides, source list of computer software, student workbooks, instructor guides, course outlines, and courses) will be consistent with current industry practices and developed in consultation with advisory committees including industry representatives. Use of the materials will be enhanced through inservice education programs, bimonthly newsletters to teachers, and an exhibit of available materials at the state conference for vocational agriculture teachers. The university will serve as a resource center in specialized curriculum areas, including use of audiovisual aids and arrangement of facilities and equipment for instructional purposes.

TX8413302.

Curriculum Development—Postsecondary Office Occupations Competency Tests.

Project Director: Barnes, Bill

Organization: East Texas State University Occupational Curriculum Laboratory, Commerce, TX 75428.

Telephone: (214) 886-5120.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $87,500.

Descriptors: Competency-Based-Education. Instructional-Materials. Job-Skills. Material-Development. Objective-Tests. Office-Occupations-Education. Performance-Tests. Teaching-Guides. Testing.

Identifiers: State. Proposal.

Eight competency test packets for postsecondary office occupations, each consisting of a general teacher's guide, specific teacher's guide, an objective test, and a performance test, will be produced. A sequence of jobs, tasks, and skills suitable for teaching and testing in a classroom laboratory will be identified and sequenced. The teaching manual will incorporate test administration directions, test solutions, modifications for the handicapped, and information on equal access to vocational education. The materials will be field-tested at selected community/junior colleges. After review and validation, the materials will be disseminated. The materials will complement existing audiovisual packages.

TX8413303.

Curriculum Development—Vocational Office Education.

Project Director: Barnes, Bill

Organization: East Texas State University Occupational Curriculum Laboratory, Commerce, TX 75428.

Telephone: (214) 886-5120.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $87,500.

Descriptors: Competence. Course-Descriptions. Curriculum-Development. Instructional-Materials. Office-Occupations-Education. Profiles.

Identifiers: State. Proposal.

Eight competency profiles, including a certificate of competency, will be produced in the following areas: ticket seller, copy cutter, general clerk, attendance clerk, stock clerk, appointment clerk, information clerk, and varitype operator. Instructional outlines will be printed for accounting, bookkeeping, and related programs; banking and related financial programs; business data processing and related programs; secretarial and related programs; word processing; typing, general office, and related programs; clerk-typist; duplicating machine operation; receptionist and communication systems operation; shipping, receiving, and stock clerk. Materials will include suggested modifications for the handicapped and limited-English-speaking students, information on equal access to vocational education, strategies for eliminating sex stereotypes, and suggested computer applications. Inservice education for teachers will be provided. A final report will be delivered.

TX8413306.

Curriculum Development: Industrial Arts.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512-471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $123,373.

Descriptors: Career-Exploration. Discovery-Learning. Industrial-Arts. Instructional-Materials. Material-Development.

Identifiers: State. Proposal.

Updated curriculum materials will be developed for exploratory programs in computer applications, woods, metals, leather, ceramics, and jewelry. Professional curriculum specialists, with consultants, advisory committee members, and industrial arts teachers, will develop the materials. The materials will be disseminated on a cost-recovery basis.

TX8413307.

Curriculum Development: Postsecondary Cosmetology Instructor Program Materials.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512) 471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $49,641.

Descriptors: Cosmetology. Laboratory-Manuals. Material-Development. Teacher-Education. Teaching-Guides.

Identifiers: State. Proposal.

Transportable, self-contained student laboratory manuals will be developed for a cosmetology instructor training program. An accompanying teacher's guide will be developed, including a bibliography and instructional strategies. Computer software will be searched to identify appropriate materials. Program modifications for handicapped, disadvantaged, and nontraditional students will be incorporated. All materials will be reviewed by cosmetologists in the educational and private sector.

TX8413308.

Curriculum Development: Vocational Industrial Education Cooperative Training.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512) 471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $119,140.

Descriptors: Competence. Competency-Based-Education. Cooperative-Education. Industrial-Arts. Industrial-Education. Instructional-Materials. Pacing. Profiles.

Identifiers: State. Proposal. Automotive Electricians. Jewelry Making Occupations. Millwright. Stonemasons. Upholsters.

Staff competency profiles will be provided for the following occupations: cabinetmaker, automotive electrician, automotive machinist, automotive power train merchanic, sheet metal worker, drafter, architect, jewelry repairer, glazier, floor layer, and furniture repairer. Self-contained, self-paced curriculum materials with related support materials and coordinator guides will be developed or revised for these occupational areas: hydraulics, pneumatics, millwright, bricklayer and stonemason, welder, furniture repairer, upholsterer and refinisher, and electrical house wirer. Consultation and validation from industry representatives will ensure that materials are accurate and current and meet student training needs. Materials will be disseminated on a cost-recovery basis.

TX8413309.
Curriculum Materials: Health Occupations.

Project Director: Robertson, Jack E.

Organization: The University of Texas at Austin Center for Occupational Curriculum Development, PO Box 7218, Austin, TX 78712.

Telephone: (512) 471-7716.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $99,261.

Descriptors: Allied-Health-Occupations. Allied-Health-Occupations-Education. Competency-Based-Education. Dental-Assistants. Guides. Individualized-Instruction. Instructional-Materials. Material-Development. Medical-Assistants. Mental-Health-Programs. Recordkeeping.

Identifiers: State. Proposal. Laboratory Paraprofessionals. Mental Health Workers. Respiratory Therapy.

Competency-based individualized student manuals will be developed for mental health aides; manuals on recordkeeping will be developed for dental assistants. Texts in applied anatomy and physiology for health occupations students also will be developed. Competency profile folders will be developed for the following occupations: nursing assistant, medical assistant, medical laboratory assistant, dental assistant, and respiratory therapy assistant. All materials will be validated by members of the Health Occupations Professional Advisory Committee.

TX8413310.
Curriculum Development—Occupational Orientation.

Project Director: Barnes, Bill

Organization: East Texas State University Occupational Curriculum Laboratory, Commerce, TX 75428.

Telephone: (214) 886-5120.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $87,500.

Descriptors: Employment-Opportunities. Productivity. Entrepreneurship. Guides. Improvement-Programs. Occupational-Information. Curriculum-Development.

Identifiers: State. Proposal.

Four occupational investigation guides will be updated to include units on productivity, free enterprise, entrepreneurship, and job opportunities. Revisions will be made in (1) Economic and Societal Factors, (2) Educational Planning, (3) Occupational Clusters, and (4) Self-Appraisal. Materials also will be developed suggesting modifications for the disabled, disadvantaged, and limited English speaking. Student-learner outcomes for occupational orientation programs will be listed, and inservice training for teachers provided.

TX8413311.
Postsecondary Electromechanical Technology.

Project Director: McClurg, Gene R.

Organization: Texas State Technical Institute—Sweetwater Route 3, Box 18, Sweetwater, TX 79556.

Telephone: (914) 235-8441.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $49,990.

Descriptors: Bibliographies. Electromechanical-Technology. Learning-Modules. Material-Development. Teaching-Guides.

Identifiers: State. Proposal.

Learning modules, a teacher's manual, and a bibliography for electromechanical technology will be developed. A survey will be conducted to identify available literature and equipment and to identify job skills. Job tasks will be defined, learning activities identified, and modules designed. The materials will be field-tested, evaluated, and revised as needed. Program modifications for the handicapped and limited English speaking will be included.

TX8413312.
Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.

Project Director: Barnes, Bill

Organization: East Texas State University Occupational Curriculum Laboratory, Commerce, TX 75428.

Telephone: (214) 886-5120.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $87,500.

Descriptors: Behavioral-Objectives. Competence. Competency-Based-Education. Profiles. Study-Guides. Teaching-Guides. Tests.

Identifiers: State. Proposal.

Fourteen competency profiles, two revised teacher's handbooks, and five student manuals will be developed and disseminated. Profiles will be developed for small engine repair, general metal trades, cashier-checker, carpenter's helper, plumber's helper, general mechanical repair, service station, attendant, stock clerk, electrician's helper, sheetrocker and painter, outboard engine repairer, bagger, bricklayer's helper, and general construction trades. The handbooks to be revised and updated are CVAE-VEH Pre Employment Laboratory Instructor's Guide, and CVAE Cooperative Training Coordinator's Guide. Student manuals for carpenter's helper, plumber's helper, electrician's helper, sheetrocker and painter, and bricklayer's helper will include tests, worksheets, student competency profiles, and coordinator guides. Teacher inservice training will be provided for the organization and use of the materials developed. A final report will be delivered.

TX8413313.
Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.

Project Director: Glosson, Linda R.

Organization: Texas Tech University Home Economics Curriculum Center, Box 4067, Lubbock, TX 79409.

Telephone: (806) 742-3028.

Sponsoring Agency: Texas Education Agency, Austin.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $429,994.

Descriptors: Child-Care-Occupations. Child-Development. Curriculum-Study-Centers. Home-Economics. Information-Dissemination. Instructional-Materials. Laboratory-Manuals. Material-Development. Teaching-Guides.

Identifiers: State. Proposal.

The Home Economics Curriculum Center will develop, field-test, evaluate, print and disseminate instructional materials and produce publications that include suggested program modifications for disadvantaged, handicapped, and limited-English-speaking students. Two student laboratory manuals and two accompanying teacher's guides will be developed and evaluated for child care courses. The laboratory manuals (one concerning administration and management of child care programs; the other, the special child) will feature performance-based learning experiences at a child care laboratory. The materials will be based on current studies, job analyses, and field tests. Other products will include a quarterly publication for teacher update in selected subject areas, competency profiles, a single topic student booklet on general employability skills, revised handbooks for cooperative education and pre-employment laboratory education, revised training plans for cooperative education, and a single topic teacher publication on using computers in the home. A brochure describing available instructional materials also will be developed and disseminated. Quarterly and final reports will be delivered.

Virginia

Research (Sec. 131)

VA8413101.

Training Alternatives for Handicapped Students in Vocational Education Programs.

Project Director: Angle, G. Henry

Organization: Fairfax County Public Schools 10310 Layton Hall Drive, Fairfax, VA 22030.

Telephone: (703) 691-2761.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-1-SP-001.

Funding Period: Start Date 02 Jan 84; End Date 29 Jun 84.

Fiscal Year Funding: $19,242.

Descriptors: Educational-Research. Exceptional-Child-Research. Job-Training. Secondary-School-Students. Training-Methods.

Identifiers: State. Proposal.

Working toward placing students successfully into appropriate jobs, project staff will use the division superintendent's business and industry advisory council to help identify the most appropriate training strategies that are effective in preparing handicapped students for work. Additionally, inservice orientation packages will be designed for employers and teachers regarding handicapping conditions and their implications for suitable job placement. The training strategies identified will be implemented, and the services of outside community agencies will be used to help prepare the students. In addition, training plans will be developed for physically handicapped, learning disabled, moderately mentally retarded, mentally retarded, and educationally disadvantaged students.

VA8413102.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103).

Project Director: Seaton, Jennie D.

Organization: Virginia Association of Allied Health Professionals MCV Station, Box 233, Richmond, VA 23298.

Telephone: (804) 231-9011.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-83-C-131-2-HO-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $15,000.

Descriptors: Allied-Health-Occupations-Education. Competency-Based-Education. Core-Curriculum. Guidelines. Inhalation-Therapists. Program-Development. Program-Implementation.

Identifiers: State. Proposal.

A two- or three-year competency-based, secondary level health assistant program will be designed and developed, including a track for the respiratory therapy aide. Program establishment and evaluation guidelines will be developed, and a core curriculum for a cluster of allied health, medical, nursing, and dental occupations will be identified using Vocational-Technical Education Consortium of States (V-TECS), out-of-state curriculum guides, and technical and teacher committee input. Project staff will explore how to include 'Introduction of Health Occupations' into the program developed. Both the program and the guidelines then will be implemented and field-tested. This project will encourage quality management of the secondary vocational health occupations program and articulation with postsecondary programs.

VA8413103.

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).

Project Director: Suydam, E. Lynn

Organization: Virginia Polytechnic Institute and State University Division of Vocational and Technical Education, Blacksburg, VA 24061.

Telephone: (703) 961-5812.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-83-C-131-2-AD-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $69,213.

Descriptors: Articulation-Education. Community-Colleges. Competency-Based-Education. Contracts. Coordination. Financial-Support. Grants. Program-Implementation. Secondary-Schools.

Identifiers: State. Proposal.

Formal articulation agreements will be developed between the community colleges and secondary schools of Virginia. Five minigrants will be developed to provide support for community college and public school faculty while developing articulation agreements. Financial support also will be provided for (1) workshops and consulting on articulation agreement development, (2) technical assistance on agreement implementation, and (3) additional handbooks and other materials to introduce and support the development of articulation agreements. Requirements, submission format, and reimbursement procedures for minigrants will be developed, and interested community colleges will be notified of the availability of the minigrants.

VA8413104.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia.

Project Director: Oliver, J. Dale

Organization: Virginia Polytechnic Institute and State University 243 Lane Hall, Blacksburg, VA 24061-3299.

Telephone: (703) 961-5238.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-3-AD-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $144,000.

Descriptors: Behavioral-Objectives. Competency-Based-Education. Consortia. Curriculum-Guides. Job-Analysis. Material-Development. Task-Analysis.

Identifiers: State. Proposal. *Vocational-Technical Education Consortium States.

Catalogs of performance objectives and performance guides for which Virginia is responsible as a member of the consortium will be developed. Performance-based instructional materials in selected occupational areas will be identified, and an occupational inventory instrument will be developed and administered to incumbent workers in those areas to determine tasks performed and the tools, equipment, and work aids used. The catalogs will be prepared, then reviewed to determine the accuracy of content to V-TECS format requirements. The final version then will be prepared. Finally, consulting assistance will be provided in statewide inservice training on use of the catalogs.

VA8413105.

Farm Business Management and Energy Conservation Adult Programs.

Project Director: Kindle, Jimmy F.

Organization: Buckingham County Public Schools Buckingham, VA 23921.

Telephone: (804) 969-4288.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-3-AG-002.

Funding Period: Start Date 01 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $40,000.

Descriptors: Adult-Farmer-Education. Energy-Conservation. Farm-Accounts. Farm-Management. Pilot-Projects. Program-Development. Program-Implementation.

Identifiers: State. Proposal.

A pilot adult education program will be developed and implemented using farm business records analysis as a basis for group and individual instruction. Another program to be developed and implemented for adults will emphasize energy conservation for greater efficiency in producing, harvesting, and marketing agricultural products. Additionally, inservice workshops for vocational agriculture instructors will be conducted on computer analysis of records and farm business management education. Finally, training modules and a teacher's guide will be developed, field-tested, and published for the farm business management and energy conservation programs. The vocational center will act as the demonstration site for interested parties.

VA8413106.

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).

Project Director: Berns, Robert G.

Organization: Virginia Polytechnic Institute and State University Vocational-Technical Education, 133 Lane Hall-Blacksburg, VA 24061-3299.

Telephone: (703) 961-5191.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-81-C-131-2-DE-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $10,000.

Descriptors: Data-Analysis. Delivery-Systems. Educational-Research. Employment-Opportunities. Employment-Projections. Influences. Labor-Market. Marketing.

Identifiers: State. Proposal.

Labor market data will be analyzed and business persons, educators, and students interviewed. Employment opportunities for marketing graduates in the 1980s will be projected. Additionally, program designs and delivery systems for marketing occupations will be analyzed. Enhancing or impeding factors then will be determined and ideal program designs and delivery systems formulated. A report of study results will be delivered, along with a model for designing programs and delivery systems for vocational education that are responsive to student and community needs.

VA8413107.

Microcomputers in Agricultural Education.

Project Director: Camp, William G.

Organization: Virginia Polytechnic Institute and State University 224 Lane Hall, Virginia Tech, Blacksburg, VA 24061.

Telephone: (703) 961-6836.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-3-AG-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $10,000.

Descriptors: Agricultural-Education. Computer-Assisted-Instruction. Computer-Oriented-Programs. Computers. Interaction. Microcomputers. Videotape-Recordings.

Identifiers: State. Proposal.

Equipment necessary to develop prototype interactive videotape/microcomputer-assisted instruction (VMCAI) and computer-assisted instruction (CAI) modules will be purchased, and a survey will be conducted of state staff members, teacher educators, and selected teachers to determine competencies for development into VMCAI and CAI modules. A series of VMCAI and CAI modules then will be developed, field-tested, and evaluated. Also, a teacher's guide on construction and use of the modules will be written, field-tested, revised, and prepared for publication. Finally, three workshops will be conducted for agriculture teachers on the development and use of VMCAI and CAI.

VA8413108.

Using the Microcomputer to Teach Keyboarding Skills.

Project Director: Schmidt, B. June

Organization: Virginia Polytechnic Institute and State University 213 Lane Hall, Virginia Tech, Blacksburg, VA 24061.

Telephone: (703) 961-5471.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-3-BE-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $11,000.

Descriptors: Computer-Assisted-Instruction. Computer-Oriented-Programs. Microcomputers. Skill-Development. Teaching-Guides.

Identifiers: State. Proposal. *Keyboarding.

In phase 1, a state-of-the-art report will be prepared based on a review of completed and underway projects and research on keyboarding instruction. An additional report will be prepared of evaluations of microcomputer hardware and software and instructional materials available for keyboarding instruction. After competencies and accompanying performance objectives, teaching strategies, and student activities have been identified, a draft of a field-test version of a microcomputer keyboarding guide will be prepared. In phases 2 and 3, the final field-test version of the guide will be prepared, used in selected schools, evaluated, and revised. The final guide then will be prepared and printed, and eight area conferences on its use will be provided to business education teachers in Virginia.

VA8413109.

Vocational Education Reporting System (VERS) Management Project.

Project Director: Elson, Donald E.

Organization: Virginia Polytechnic Institute and State University 242 Lane Hall, Blacksburg, VA 24061.

Telephone: (703) 961-5237.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-131-3-AD-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $84,687.

Descriptors: Compliance-Legal. Data-Collection. Guides. Inservice-Education. Management-Systems. Systems-Development.

Identifiers: State. Proposal. *Vocational Education Reporting System.

The VERS data collection forms and user's guide will be revised, providing the means to collect information necessary for planning vocational education programs in Virginia. Inservice sessions for local and state personnel involved in the data collection and analysis will be provided. Also, workshops will be conducted for VERS coordinators and vocational education instructors to reduce reporting errors at data collection sources. Project staff will coordinate with community colleges to exchange information for compliance and will work with state department staff to solve problems associated with the reports. An information system study will be conducted and a proposed plan developed for implementing a comprehensive information system for evaluating vocational education.

Curriculum Development (Sec. 133)

VA8413301.

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders.

Project Director: Jacobs, Brian C.

Organization: Virginia Commonwealth University 901 West Franklin Street, Richmond, VA 23284.

Telephone: (804) 257-1332.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-HO-001.

Funding Period: Start Date 15 Jan 84; End Date 30 Jun 84.

Fiscal Year Funding: $15,000.

Descriptors: Administrator-Guides. Department-Heads. Material-Development. Nurses. Nursing-Education. Practical-Nursing. Program-Administration.

Identifiers: State. Proposal.

In producing a model administrative guidebook, project staff will build upon a beginning outline established in a former project and will develop a detailed outline, which will be reviewed and revised, and a table of contents. Procedures required to meet the four state standards for competency-based education will be integrated into the contents. The guidebook developed will be presented in a statewide inservice meeting to all practical nursing program leaders, who will validate the contents and recommend improvements. Following revision, if any, camera-ready copy will be prepared.

VA8413302.

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.

Project Director: Miller, Malvern L.

Organization: Old Dominion University Research Foundation PO Box 6369, Norfolk, VA 23508-0369.

Telephone: (804) 440-3307.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-SP-001.

Funding Period: Start Date 01 Sep 83; End Date 29 Jun 84.

Fiscal Year Funding: $12,500.

Descriptors: Careers. Criterion-Referenced-Tests. Daily-Living-Skills. Instructional-Materials. Material-Development. Reference-Materials. Special-Education. Teaching-Guides. Units-of-Study.

Identifiers: State. Proposal.

In developing these units for teaching special needs students, project staff will identify instructional materials to support performance objectives identified by the special programs teacher curriculum committee. Criterion-referenced measures that examine students' abilities to demonstrate competency in identified skill requirements also will be developed. Additionally, supporting reference materials desirable for teacher preparation of instruction will be identified. Sample units then will be drafted, using the selected materials, and assembled into a theme-oriented package. Following review and recommendation by an advisory committee of special needs teachers, the draft components will be finalized into camera-ready copy.

VA8413303.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry.

Project Director: Ritz, John M.

Organization: Old Dominion University Research Foundation PO Box 6369, Norfolk, VA 23508-0369.

Telephone: (804) 440-4305.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-IA-001E.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Competency-Based-Education. Industrial-Arts. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal. *Modern Industry.

The competency catalog and related materials on modern industry will be reviewed, as well as the approved instructional resource guide format, and an advisory committee will be established to make content recommendations for the guide. The Industrial Arts Education Instructional Guide for Modern Industry then will be drafted and evaluated with advisory committee assistance. Following revision, camera-ready copy will be prepared.

VA8413304.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology.

Project Director: Ritz, John M.

Organization: Old Dominion University Research Foundation PO Box 6369, Norfolk, VA 23508-0369.

Telephone: (804) 440-4305.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-IA-001C.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Competency-Based-Education. Industrial-Arts. Industrial-Education. Material-Development. Resource-Materials. Teaching-Guides. Technology.

Identifiers: State. Proposal. *Materials and Processes Technology.

The competency catalog and related materials on materials and processes technology will be reviewed, as well as the approved instructional resource guide format, and an advisory committee will be established to make content recommendations for the guide. Materials and Processes Technology Curriculum Guide then will be reformatted into an instructional resource guide and edited. Following revision, camera-ready copy will be prepared.

VA8413305.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.

Project Director: Ely, Vivien K.

Organization: Virginia Commonwealth University Box 568 MCV Station, Richmond, VA 23298.

Telephone: (804) 275-1332.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-DE-002.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $5,463.

Descriptors: Competency-Based-Education. Distributive-Education. Instructional-Materials. Learning-Activities. Marketing. Material-Development. Resource-Materials. Teacher-Workshops.

Identifiers: State. Proposal. Distributive Education Clubs of America.

A three and one-half day writer's workshop will be conducted to develop the activities. Up to twenty distributive education teachers will be selected to participate in the workshop; business persons will be selected as advisors. The teachers will be provided orientation and skill development to prepare them for developing the learning activities, which will be reviewed, edited, and revised for use in teacher resource guides. The activities then will be field-tested at the 1984 Distributive Education Clubs of American State Leadership Conference.

VA8413306.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.

Project Director: Ely, Vivien K.

Organization: Virginia Commonwealth University Box 568 MCV Station, Richmond, VA 23298.

Telephone: (804) 257-1332.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-DE-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $26,994.

Descriptors: Academically-Gifted. Competency-Based-Education. Computer-Assisted-Instruction. Distributive-Education. Educational-Resources. Entrepreneurship. Learning-Activities. Marketing. Material-Development. Talent. Teaching-Guides.

Identifiers: State. Proposal. *Distributive Education Clubs of America.

Tasks for an advanced general marketing course will be separated from the master task list for a four-level curriculum, and appropriate learning activities and approved resources for teaching the tasks will be referenced in a teacher's guide. Also, teacher's guides and field test versions of courses will be developed for two additional courses; a one-year marketing management course for talented and gifted students preparing for careers or college programs and a one-year microcomputer-assisted course on owning and operating a small business. Additionally, the two marketing exploratory modules will be revised according to field test results, then edited and printed for disseminaton. Finally, DECA competency-based competitive events previously developed through a writers' workshop will be reviewed, revised as appropriate, and organized into a master file of events for incorporation into level 2 general marketing and specialized option curricula.

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VA8413307.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.

Project Director: Koontz, Phyllis

Organization: James Madison University Home Economics Department, Harrisonburg, VA 22807.

Telephone: (703) 433-6166.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-HF-001A.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Clothing. Competency-Based-Education. Fashion-Industry. Home-Economics. Material-Development. Occupational-Home-Economics. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

A competency-based instructional resource guide for a year course will be developed for program implementation. Using tested instructional materials solicited from the fashion specialist teacher, two teachers will write the guide, which will be reviewed and approved by the Associate Director of Home Economics, the State Supervisor of Vocational Curriculum Development, and the Coordinator for Sex Equity. Camera-ready copy of the guide then will be prepared.

VA8413308.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.

Project Director: Dickens, John W.

Organization: James Madison University Department of Distributive and Industrial Education, Harrisonburg, VA 22807.

Telephone: (703) 433-6824.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-HE-001B.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Competency-Based-Education. Food-Service. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

A competency-based instructional resource guide for program implementation will be developed for catering specialist (8279). Curriculum materials and resources will be obtained and competency lists revised and validated. The guide will include occupational information, a task or competency list, performance and enabling objectives, criterion-referenced measures, instructional activities, a tools and materials list, audiovisual aids and references, course descriptions, student organization, classroom management systems, recording systems, and a resource listing. Following field-testing and revision, camera-ready copy of the guide will be prepared. A final report also will be delivered.

VA8413309.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.

Project Director: Akers, Martha G.

Organization: Roanoke City Public Schools PO Box 13145, Roanoke, VA 24031.

Telephone: (703) 981-2928.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-HE-001C.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,500.

Descriptors: Competency-Based-Education. Consumer-Education. Family-Life-Education. Home-Economics. Homemaking-Skills. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

A competency-based instructional resource guide for a semester course will be developed for program implementation. Three or four selected consumer and homemaking teachers will develop a list of competencies and write the guide, which will be field-tested in three or more high schools in the Roanoke area. Following evaluation and revision based on field test data, camera-ready copy will be prepared.

VA8413310.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.

Project Director: Synder, Helen B.

Organization: Newport News Public Schools 12465 Warwick Boulevard, Newport News, VA 23606-0130.

Telephone: (804) 599-8721.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-HE-001D.

Funding Period: Start Date 01 Sep 83; End Date 30 Jun 84.

Fiscal Year Funding: $2,500.

Descriptors: Competency-Based-Education. Consumer-Education. Homemaking-Skills. Home-Economics. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

A model program for an eighteen-week course will be developed in the form of an instructional resource guide. Performance-based instructional materials in selected consumer and homemaking areas will be identified, and a homemaker's task list will be developed and used to survey homemakers and home economics teachers to determine tasks performed and tools and equipment used. Developed with survey results, the guide will include performance objectives, enabling objectives, a set of criterion-referenced measures, and selected instructional activities. Following field-testing, a final version of the guide will be prepared and a camera-ready copy delivered.

VA8413311.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology).

Project Director: Deal, Walter F., III

Organization: Old Dominion University Research Foundation PO Box 6369, Norfolk, VA 23508-0369.

Telephone: (804) 440-4305.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-001A.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Communications. Competency-Based-Education. Industrial-Arts. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

The competency catalog and related materials on communication technology will be reviewed, as well as the approved instructional resource guide format, and an advisory committee will be established to make content recommendations for the guide. The Industrial Arts Education Instructional Guide for Communication Technology then will be drafted and evaluated with advisory committee assistance. Following revision, camera-ready copy will be prepared.

VA8413312.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing.

Project Director: Joyner, David I.

Organization: Old Dominion University Research Foundation PO Box 6369, Norfolk, VA 23508-0369.

Telephone: (804) 440-4306.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-84-C-133-1-IA-001B.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,500.

Descriptors: Competency-Based-Education. Manufacturing. Material-Development. Resource-Materials. Teaching-Guides.

Identifiers: State. Proposal.

The competency catalog and related materials on manufacturing will be reviewed, as well as the approved instructional resource guide format, and an advisory committee will be established to make content recommendations for the guide. The Industrial Arts Education

Instructional Guide for Manufacturing then will be drafted and evaluated with advisory committee assistance. Following revision, camera-ready copy will be prepared.

VA8413313.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2.

Project Director: Dix, C. B., Jr.

Organization: James Madison University Harrisonburg, VA 22801.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-83-C-133-3-TI-003.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $20,000.

Descriptors: Delivery-Systems. Information-Networks. Inservice-Teacher-Education. Leadership-Training. Systems-Development.

Identifiers: State. Proposal. Vocational Industrial Clubs of America.

Development, coordination, and evaluation of a model interrelated teacher education network will be continued. Components will include (1) an inservice delivery system to identify and develop competencies needed by new trade and industrial (T&I) teachers who are specialists in particular trades; (2) a field-based inservice program to improve the efficiency of T&I education, Industrial Cooperative Training (ICT), emphasizing coordinator competency development and communication systems; and (3) an ongoing teacher/advisor leadership program to ensure availability of key Vocational Industrial Clubs of American (VICA) leaders in each established VICA district. Through an annual meeting, T&I teacher education institutions and teacher educators will continue cooperative planning and sharing of resources, materials, methods, and trends.

VA8413314.

Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).

Project Director: Armstrong, Flora C.

Organization: Henrico County Public Schools PO Box 40, Highland Springs, VA 23075.

Telephone: (804) 737-3417.

Sponsoring Agency: Virginia State Dept. of Education, Richmond.

Contract/Control No.: CN: VA-83-C-133-3-CD-001.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $335,000.

Descriptors: Competency-Based-Education. Curriculum-Study-Centers. Information-Dissemination. Instructional-Materials. Material-Development. Publicity.

Identifiers: State. Proposal.

The Virginia Vocational Curriculum Center will be operated to assist the state division of vocational and adult education in curriculum development and distribution for competency-based education. Available materials will be obtained and evaluated, then modified if necessary. New materials will be written, and materials produced by field project sites will be rewritten or edited. All materials produced at the center will be evaluated. Curriculum distribution assistance will include (1) providing printing services; (2) establishing and maintaining a lending library system; (3) providing statewide distribution and mailing of center materials; and (4) improving usage by publicizing the center through public relations projects, articles and publications, presentations, tours, and inservice activities. Additionally, center staff will participate in local, state, and national committees, organizations, and associations.

Washington

Research (Sec. 131)

WA8413101.
Vocational Information for Career Guidance.
Project Director: Horlacher, Greta; Crossman, Bill
Organization: Longview School District Twenty-eighth and Lilac Streets, Longview, WA 98632.
Telephone: (206) 577-2718.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASG (182) NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Descriptors: Career-Guidance. Catalogs. Educational-Certificates. Occupational-Information. Pamphlets. Student-Certification.
Identifiers: State. Proposal.

Printed brochures and catalog information will be developed for Longview High School students who need career information regarding certificates of completion or majors in the five vocational program areas. This will enable the students to better select course work to meet their career objectives. Vocational staff will provide input about the types of guidance problems to assess. After a workshop program has been conducted, vocational advisory committees will be convened to evaluate proposals. The student brochures and comprehensive notebooks will be distributed to counselors, CVE, SPI, and SBCCE to serve as instructional tools and verification of the completed project. Proposed materials also will be presented to each advisory group for judgment of relevancy, timeliness, and occupational competencies. A final report also will be delivered.

WA8413102.
Advanced Placement.
Project Director: Bjur, Mike; Hansen, Bill
Organization: Clark County, Evergreen SD-Skills Center 12300 Northeast Twenty-eighth Street, Vancouver, WA 98662.
Telephone: (206) 256-6079.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASI (178) NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Descriptors: Advanced-Placement. Articulation-Education. Models.
Identifiers: State. Proposal.

A structure will be identified and implemented for articulation of students from secondary vocational education programs into postsecondary level programs, both public and private. An option for advanced placement will be included. To accomplish this, county articulation meetings and a meeting with four nonpublic postsecondary program directors will be conducted. A replicable articulation model then will be prepared. Workshops will be conducted for vocational education instructors and for Clark College instructors and private training program directors. Technical assistance to districts will be provided in group meetings. A final report will be delivered.

WA8413103.
Feasibility Study: Stevens County Vocational Skills Center.
Project Director: Birdsell, Dan
Organization: Educational Service District 101 West 1025 Indiana, Spokane, WA 99205-4562.
Telephone: (509) 456-6320.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASF(177) NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Descriptors: Educational-Needs. Feasibility-Studies. School-Surveys.
Identifiers: State. Proposal.

Students, parents, school personnel, school directors, and Vocational Education Advisory Committee members of districts operating secondary school programs in Stevens County will be surveyed. Survey instruments will be developed from IVEC materials and administered in person to students, school staff, and school directors. Survey results will be used to determine the need for vocational education programs, the extent to which current programs are meeting those needs, and the willingness of school personnel and students to participate in inter-district cooperative programs. A final report will be delivered.

WA8413104.
Employability Voucher System.
Project Director: Allen, Jerry; Olmer, David
Organization: Edmonds School District 3800 196th SW, Lynnwood, WA 98036.
Telephone: (206) 771-7880.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASH (176) NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,470.
Descriptors: Educational-Certificates. Employment-Potential. Student-Certification.
Identifiers: State. Proposal. *Alternative High Schools.

Designed and produced for students in an alternative high school, the vouchers will attest to the fact that students possess skills and qualities that area business people desire in their employees; the vouchers also will relate how the skills were achieved. Questions will be prepared and a profile written of Scriber Lake, and schools with experience-based projects will be visited. Students will be surveyed and identified to participate in the project. Businesses will be surveyed to determine desired skills. The vouchers then will be designed. Staff and community leaders will be contacted to help students, and student progress toward completion of the vouchers will be supervised. Finally, business leaders and students will meet to determine project effectiveness. A final report will be delivered.

WA8413105.
Project Follow-up.
Project Director: VanAusdle, Steve; Peterson, James
Organization: Walla Walla Community College 500 Tausick Way, Walla Walla, WA 99263-9267.
Telephone: (509) 522-2500.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASE(163)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,500.
Descriptors: Dropout-Research. Dropouts. Followup-Studies. Program-Effectiveness. Systems-Development.
Identifiers: State. Proposal.

A new vocational student follow-up system will be developed and tested and its effectiveness evaluated. Data from responses received will be analyzed. Each quarter, the principal investigator will evaluate the project, focusing on efficiency and effectiveness of the follow-up processes employed. Outside consultants will assist with data analysis and project evaluation. A final report and guides will be delivered.

WA8413106.
Home and Family Life Education Program Analysis.
Project Director: Riggers, Marcia
Organization: Washington State University 210 White Hall, Pullman, WA 99164.
Telephone: (509) 335-5117.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASJ(187)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $13,076.

Descriptors: Course-Objectives. Courses. Educational-Attainment. Educational-Research. Family-Life-Education. Research-Reports. Selection.

Identifiers: State. Proposal.

A report will be prepared which compares student course selection and completion to the achievement of stated goals of Vocational Home and Family Life Education programs in the state's 251 secondary school districts. Specifically, researchers will examine the relationship of middle or junior high course availability and student selection in grades 6-8, as well as high school Home and Family Life course selection in grades 9-12. Also, comparison will be made of the selection of advanced semester courses by students in grades 9-12 between schools that required more than a semester of a basic comprehensive course with those that have required a semester or less. Additionally, the report will identify the distribution of female/male, minority, and disadvantaged students in Home and Family Life Education courses (grade 6-12) by grade level and course. Finally, researchers will distinguish what behaviors related to the stated goals of the programs are being reported by persons who have completed at least three semesters. A final report will be delivered.

WA8413107.

Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing.

Project Director: Roediger, Jeanette

Organization: Olympia Technical Community College 2011 Mottman Road, SW, Olympia, WA 98502.

Telephone: (206) 754-7711.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASA(149)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Associate-Degrees. Curriculum-Research. Ethical-Instruction. Nursing-Education. Program-Development.

Identifiers: State. Proposal.

Instructional sources needed for a course in ethics education for community college associate degree nursing students will be researched and acquired. Specific activities in the program development include reviewing literature on nursing ethics and developing a bibliography; purchasing selected books, materials, and media; and identifying human resources. Course objectives will be identified. A course outline then will be prepared, and lesson plans, case studies, and evaluation tools will be developed. The instructional council and the associate dean of instruction will evaluate the program. A final report and the curriculum will be delivered.

WA8413106.

Performance Testing in Electronic Technology.

Project Director: Williamson, Bert; Pedersen, Joe

Organization: Skagit Valley College 2405 College Way, Mount Vernon, WA 98273.

Telephone: (206) 428-1163.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASB(154)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Electronics. Field-Tests. Performance-Tests. Technology. Test-Construction.

Identifiers: State. Proposal.

Individualized, hands-on performance tests will be developed and field-tested for first year electronic technology students in selected fundamental concept areas. Designed following literature review and consultation with industry representatives, each test will benefit equally preparatory vocational students and students requiring upgrading. Evaluators will be members of the Department of Electronic Technology, the Advisory Committee for Electronic Technology, the Associate Dean for Occupational Education, and the principal investigator. Ten to thirty performance tests and a final report will be delivered.

WA8413109.

Articulation—Phase I: Spokane Area Vocational Skills Center/ Spokane Falls Community College, Development of a Model.

Project Director: Hill, Edwin K.

Organization: Spokane Falls Community College West 3410 Fort George Wright Drive, Spokane, WA 99204.

Telephone: (509) 459-3523.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASD(158)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Articulation-Education. Guidelines. Models. Student-Needs. Technological-Advancement.

Identifiers: State. Proposal.

An articulation model will be created with emphasis on student needs in high technology vocational programs at both institutions. An outside consultant will be hired to interview staff from the skills center and the community college to develop guidelines for establishment of a model which suggests development or revision of programs to meet student training needs. High technology training will begin at the skills center and progress at a smooth and comprehensive pace through the community college programs. Evaluation of the model will be ongoing. The final document will be evaluated by participating interested individuals at the request of the project director. In addition to the guidelines, a final report will be delivered.

WA8413110.

Identification of Electronics Competencies in Vocational Programs.

Project Director: Mitchell, Gary; Carlson, Ralph

Organization: Spokane Community College North 1810 Greene Street, Spokane, WA 99207.

Telephone: (509) 536-7071.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWF(235)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $7,250.

Descriptors: Admission-Criteria. Comparative-Analysis. Competence. Educational-Research. Electronics. Program-Content. School-Business-Relationship. Technology.

Identifiers: State. Proposal. *Impact Evaluation.

The impact that electronics has made between 1979 and 1984 in the content of vocational programs wll be researched. Project staff will study industry served to assess the impact of electronic technology, provide job-entry skills, and determine program entrance competencies for each of the programs affected. The research will involve identifying specific occupations and corresponding vocational programs throughout the state requiring electronics skills, identifying electronics skills needed in each identified program to meet 1984 standards, and establishing current entrance skills and proficiency levels necessary to complete successfully basic electronics curriculum in identified programs. Electronics skills used in industry and corresponding programs for the year 1979 will be identified, and the difference will be established in skills and competency levels in industry and related programs between the base year and current requirements. Then an inventory will be created of electronics job-entry skills and competencies applicable to each identified program. Curriculum changes and additions will be identified, and recommendations will be made. A final report will be delivered.

WA8413111.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.

Project Director: Mitchell, Gary; Crowe, Jacquelyn

Organization: Spokane Community College North 1810 Greene Street, Spokane, WA 99207.

Telephone: (509) 536-7355.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWE(234)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $8,750.

Descriptors: Competence. Curriculum. Curriculum-Research. Entry-Workers. Job-Skills. Program-Content. Program-Evaluation.

Identifiers: State. Proposal.

A survey will be developed to provide a baseline for evaluating existing data entry, keypunch, and work and information processing programs, as well as needs of the future when updating information processing curricula as skills and proficiency levels change. Support personnel throughout the state will be contacted to evaluate existing data entry, keypunch, clerk typist, and word processing programs. Using the DACUM method, project staff will identify the difference in skills and proficiency levels necessary for entry-level employment in the automated data entry and word processing field. A statistical survey to measure performance requirements and standards of performance levels necessary for entry-level employment then will be developed and implemented randomly in the state; survey responses will be compiled to develop standards of performance levels necessary for entry-level employment. Test program curricula will be recommended and implemented based on survey findings. A review committee and advisory committee will evaluate test program curricula. A final report will be delivered.

Curriculum Development (Sec. 133)

WA8413301.

Revision of Special Needs Diversified Occupations Curriculum.

Project Director: Wiltz, Marilyn; Morton, Karen

Organization: Mukilteo School District 9401 Sharon Drive, Everette, WA 98204.

Telephone: (206) 355-6222.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATN(183)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,252.

Descriptors: Employment-Potential. Industry. Job-Training. Labor-Needs. Needs. Special-Education.

Identifiers: State. Proposal. *Diversified Occupations.

The curriculum at Mariner High School will be revised to better prepare students for employment upon graduation and better meet the needs of labor and industry. Learning objectives of high school students will be established from the current objectives, and a needs assessment will be conducted of twenty-five local businesses to establish prerequisites for employment of high school graduates. Staff then will meet with high school special education teachers to establish student learning objectives. Investigation of diversified occupations curriculum will include visiting other special needs programs in the area and attending workshops, seminars, and conferences. The written and documented curriculum will be evaluated by the vocational coordinator and special education director. The curriculum then will be revised again as necessary. In addition to the curriculum, a final report will be delivered.

WA8413302.

Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs.

Project Director: Stella, Carolyn Rose

Organization: Kennewick SD-Skills Center 200 South Dayton, Kennewick, WA 99336.

Telephone: (509) 735-8790.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATM(181)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Academic-Achievement. Competency-Based-Education. Disadvantaged-Youth. Evaluation-Criteria. Minimum-Competencies.

Identifiers: State. Proposal.

Performance-based and evaluated course competencies will be developed and refined in auto service, parts distribution, nurse assistant, radio/TV production, welding, commercial foods, small gas engines, industrial mechanics, word processing, cashier/checker, data processing, and reproduction graphics. Performance indicators of progress towards each course objective will be written, and minimum evaluative criteria will be written or refined for program completion and job entry, as well as for disadvantaged youth in the programs. The total curriculum package in each job profile area will be field-tested on a class of students. Finally, an evaluative report of the curriculum developed will be written. The curriculum and a final report will be delivered.

WA8413303.

Teacher Training, Curriculum, and Student Learning Objectives (SLOs) Development.

Project Director: Albrecht, Hugh

Organization: Highline School District 18010 Eighth Avenue, S., Seattle, WA 98148.

Telephone: (206) 433-2524.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATG(180)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Behavioral-Objectives. Faculty-Development. Teaching-Methods.

Identifiers: State. Proposal.

A staff member with skills of curriculum development and teacher training will be hired one day per week for thirty-six weeks to work with the Occupational Skills Center staff to update curriculum for each program and to assist teachers in presenting their curriculum. SLOs will be written for each program. The trainer also will instruct skills center staff members on new methods of teaching. The revised curriculum, SLOs, and a final report will be delivered.

WA8413304.

Curriculum Development of Learning Activity Packets (LAPs)—Dental Assisting Program.

Project Director: Hempler, Nancy; Schacht, Kathy

Organization: Bellingham Vocational-Technical Institute 3028 Lindbergh Avenue, Bellingham, WA 98225.

Telephone: (206) 676-6490.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATF(175)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Dental-Assistants. Learning-Modules. Material-Development.

Identifiers: State. Proposal.

A dental assisting instructor will be provided with release time to revise and/or develop standardized LAPs for all dental assisting curriculum not in modules. Standardization, continuity, and clarity of individualized instruction will be provided for students by identification of directions for use, specific goals and objectives, learning activities, audiovisual materials, references, and evaluation tools for each LAP. The LAPs will be implemented and revised as necessary. Students will write evaluation of the LAPs, and a statement of approval will be sought from the dental assisting advisory committee. The curriculum and a final report will be delivered.

WA8413305.

Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive.

Project Director: Short, Chris; Roddy, Roy

Organization: Yakima Valley College Sixteenth Avenue and Nob Hill Boulevard, Yakima, WA 98907.

Telephone: (509) 575-2383.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATE(170)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,150.

Descriptors: Auto-Mechanics. Instructional-Materials. Material-Development. Trade-and-Industrial-Education.

Identifiers: State. Proposal. *Front Wheel Drive Vehicles.

Necessary materials will be developed to integrate front wheel drive training into the existing general mechanics chassis 070 and 071 program. In preparation, project staff will review relevant literature and materials, review the current program to target exact areas of need, and attend available dealer service schools pertaining to front wheel drive automobiles. Staff then will develop student worksheets, related audiovisual materials, evaluation quizzes, and a final exam. Student evaluation forms for the developed materials will be produced. Three forms of evaluation will be used: ongoing review by the principal investigator, use of developed quizzes and final exam to determine student learning, and evaluation by students at the end of the quarter. The resulting curriculum and a final report will be delivered.

WA8413306.

Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I.

Project Director: Short, Chris; Partlow, Janet

Organization: Yakima Valley College Sixteenth Avenue and Nob Hill Boulevard, Yakima, WA 98907.

Telephone: (509) 575-2856.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATD(169)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Advocacy. Community-Health-Services. Cultural-Pluralism. Gerontology. Health-Personnel. Limited-English-Speaking.

Identifiers: State. Proposal.

Curriculum will be developed to teach CHA students about the health needs of the elderly in the limited English-speaking, multicultural communities from which the students come. In preparation, project staff will review literature, develop resource materials, and visit a local senior center to assess needs. The curriculum then will be developed. After revision, the curriculum will be finalized and evaluated by faculty members and student examination and evaluation. The curriculum and final report will be delivered.

WA8413307.

Microcomputerized Farm Records Management.

Project Director: Heiner, Harold; Heintz, Monte

Organization: Whatcom Community College 5217 Northwest Road, Bellingham, WA 98826.

Telephone: (206) 676-2170.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATC(168)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,420.

Descriptors: Annual-Reports. Computer-Oriented-Programs. Computer-Programs. Farm-Accounts. Farm-Management. Management-Systems. Student-Records. Systems-Development.

Identifiers: State. Proposal.

The farm business management program records system will be converted from a hand processed format to microcomputer. The final product will include the capability to produce monthly microcomputer farm records and a complex annual report for enrolled farm management students. Prior to conversion, project staff will review literature and materials and contact other colleges with similar programs. After conversion, complete, monthly reports will be generated for all enrolled. Next, a software consultant will be identified and software development will be completed. Preliminary annual reports will be piloted and software revised as needed. The principal investigator will conduct ongoing evaluation and review. A final report will be delivered.

WA8413308.

Health Technologies Microcomputer Search and Orientation Project—Phase 2.

Project Director: Eley, Robert; Abbott, David

Organization: Wenatchee Valley College 1300 Fifth Street, Wenatchee, WA 98801.

Telephone: (509) 662-1651.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATB(167)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Computer-Literacy. Minicourses. Nurses. Nursing-Education.

Identifiers: State. Proposal.

A short course will be provided to help familiarize nursing personnel in Wenatchee and surrounding areas with the basic microcomputer concepts necessary to enable them to use the nursing oriented software available. Before preparing curriculum, project staff will obtain and evaluate software reference directories and indexes, mail letters of inquiry to appropriate vendors, and review relevant software on microcomputers. Students and instructors will evaluate the short course after it has been offered to all interested nursing students. Suggested modifications then will be made based on their reponses and practitioner responses. The curriculum and a final report will be delivered.

WA8413309.

Updating of the Curricula for Industrial Refrigeration Course.

Project Director: Eley, Robert; Hathaway, Rodney

Organization: Wenatchee Valley College 1300 Fifth Street, Wenatchee, WA 98801.

Telephone: (509) 662-1651.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATA(166)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $1,700.

Descriptors: Class-Activities. Instructional-Materials. Laboratory-Experiments. Material-Development. Refrigeration. Refrigeration-Mechanics. Teaching-Guides. Trade-and-Industrial-Education.

Identifiers: State. Proposal.

The final product of the curriculum updating and restructuring will consist of the curriculum materials and instructional guidelines for use in both classroom and laboratory settings, as well as suggested complementary laboratory projects. The guidelines will be prepared following review of existing refrigeration programs available in the state and of pertinent literature regarding course content. The rough draft will be reviewed by appropriate staff members and the advisory committee, and the principal investigator will conduct ongoing review and evaluation. Also, the quality and appropriateness of the curriculum revisions will be evaluated periodically and at the end of the project by staff, tradespeople, and the advisory committee. The curriculum and a final report will be delivered.

WA8413310.

North Central Washington Spanish Instruction Modules for Business Occupations.

Project Director: Eley, Robert; Bauer, Henry

Organization: Wenatchee Valley College 1300 Fifth Street, Wenatchee, WA 98801.

Telephone: (509) 662-1651.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASZ(165)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,400.
Descriptors: Applied-Linguistics. Bilingual-Instructional-Materials. Enrichment-Activities. Learning-Modules. Material-Development. Retailing. Sales-Workers. Second-Language-Instruction. Spanish.
Identifiers: State. Proposal. *Fast Foods. *Impact Evaluation.

Specialized Spanish study modules will be developed for selected retail stores: grocery stores, parts shop, and a fast food service. Several research activities will be conducted. A Spanish instructor and a small business management instructor will be appointed to study the business communities' need for an elementary Spanish training program for non-Spanish-speaking employees. The instructors then will interview retail store owners and managers to collect information for establishing the kinds of specialized curriculum to develop. Also, the instructors will design a questionnaire and supervise the collection of information from hispanics with limited English-speaking ability. Additionally, newspaper, advertising magazines, and four radio stations will be surveyed to analyze the perception of impact on potential Spanish-speaking customers in the rural area. The materials, which will supplement regular instruction, then will be developed, printed, and/or recorded. The curriculum and a final report will be delivered.

WA8413311.
Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest.

Project Director: Peterson, James; Farrens, Greg
Organization: Walla Walla Community College 500 Tausick Way, Walla Walla, WA 99362.
Telephone: (509) 522-2500.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASY(164)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,500.
Descriptors: Conservation-Environment. Energy-Conservation. Instructional-Materials. Material-Development. Water-Resources.
Identifiers: State. Proposal. *Irrigation.

Following review and analysis of available texts and trade manuals and visits to job sites and business outlets, the curriculum materials will be developed. The college's irrigation technology advisory committee will analyze the materials and, along with chosen professional people in the irrigation industry, perform ongoing evaluations. In addition to the curriculum materials, a final report will be delivered.

WA8413312.
Preparation of Hewlett Packard-3000 Programing Language Editors.

Project Director: Hill, Ed; Hatherly, Vivian
Organization: Spokane Falls Community College West 3410 Fort George Wright Drive, Spokane, WA 99204.
Telephone: (509) 459-3523.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASX(162)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,218.
Descriptors: Computers. Curriculum-Evaluation. Editing. Learning-Modules. Material-Development. Programing.
Identifiers: State. Proposal. *Hewlett-Packard 3000.

Individualized programming language editor instruction learning packets will be prepared to enable programming language students to use the editing capability and other features of the HP-3000. Necessary content will be determined by reviewing relevant literature and manuals for each type of equipment, and an outline of proposal manual contents will be drafted and submitted to programming instructors and other staff members for review. The manuals then will be used on a test basis; student and instructor evaluations will be obtained. Revised manuals will be used during fall quarter. Student and instructor evaluations again will be sought, and necessary revisions will be made. A final report will be delivered.

WA8413313.
Preparation of Basic Programing Language Editors.

Project Director: Hill, Ed; Hatherly, Vivian
Organization: Spokane Falls Community College West 3410 Fort George Wright Drive, Spokane, WA 99204.
Telephone: (509) 459-3523.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASW(161)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,500.
Descriptors: Computers. Curriculum-Evaluation. Editing. Introductory-Courses. Learning-Modules. Material-Development. Programing.
Identifiers: State. Proposal.

Individualized, basic programming language editor instruction learning packets will be prepared for use by basic programming language students. Necessary content will be determined by reviewing relevant literature and manuals for each type of equipment, and an outline of proposed manual contents will be drafted and submitted to programming instructors and other staff members for review. The manuals then will be used on a test basis; student and instructor evaluations will be obtained. Revised manuals will be used during fall quarter, and student and instructor evaluations again will be sought. Necessary revisions then will be made. A final report will be delivered.

WA8413314.
Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.

Project Director: Hill, Ed; Bertone, Charles
Organization: Spokane Falls Community College West 3410 Fort George Wright Drive, Spokane, WA 99204.
Telephone: (509) 459-3734.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASV(160)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,500.
Descriptors: Audiovisual-Aids. Competency-Based-Education. Electronics. Learning-Modules. Material-Development. Performance-Tests. Photographic-Equipment. Repair.
Identifiers: State. Proposal.

Printed competency-based curriculum modules and supplementary audiovisual materials will be produced. Preliminary activities will include reviewing curriculum materials available, contacting major manufacturers of electronic camera equipment, and reviewing present curriculum relating to electronic camera components. Competencies to be used as the basis of the new curriculum then will be developed and grouped. In addition to the written and audiovisual materials, a final hands-on exam and student evaluation tools will be developed for the modules. An evaluation tool also will be developed to elicit ongoing feedback from students to aid course revision. The curriculum and a final report will be delivered.

WA8413315.
Update Visual Media Technologies Program Graphics 1 to Include New Computer Graphics and Computer Typesetting Technologies.

Project Director: Hill, Ed; McFadden, Mary Ellen
Organization: Spokane Falls Community College West 3410 Fort George Wright Drive, Spokane, WA 99204.
Telephone: (509) 459-3521.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASU(159)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,500.
Descriptors: Audiovisual-Aids. Competency-Based-Education. Computer-Graphics. Learning-Modules. Material-Development. Technological-Advancement.
Identifiers: State. Proposal. *Computer Typesetting.

Printed competency-based curriculum modules and related audiovisual materials will be produced for a graphics technology course. Relevant curriculum materials will be reviewed, and advisory board members, experts, other educators, and manufacturers will be contacted to gather curriculum development information. The graphics I curriculum will be reviewed. Information gathered on the new graphic technologies will be organized and integrated with revised and reorganized graphics I curriculum to develop the modules. Performance standards will be developed for each competency. Written and performance tests will be developed and audiovisual materials designed to supplement the modules. Finally, an evaluation tool will be developed to gather student feedback. The curriculum and a final report will be delivered.

WA8413316.

Ward Secretary Simulation Software Development.

Project Director: Mitchell, Gary; Garcia, Elaine

Organization: Spokane Community College North 1810 Greene Street, Spokane, WA 99207.

Telephone: (509) 356-7297.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AST(157)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,483.

Descriptors: Computer-Oriented-Programs. Computer-Programs. Computer-Simulation. Data-Processing. Hospital-Personnel. Material-Development. Secretaries.

Identifiers: State. Proposal.

A data entry hospital simulation for ward secretary training will be developed and implemented. Software will be developed for use with state-owned hardware in an existing twenty-four station microprocessor laboratory. Essential elements of the simulation program will be defined and student learning objectives determined. The prototype simulation then will be written. Necessary revision will be made following review by the advisory committee established. After use with a student test group, the hospital record program advisory committee and computer support personnel will evaluate the effectiveness of the students' learning experiences. The curriculum and a final report will be delivered.

WA8413317.

Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.

Project Director: Mitchell, Gary; Reding, Beverli

Organization: Spokane Community College North 1810 Greene Street, Spokane, WA 99207.

Telephone: (509) 536-7069.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASR(156)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,110.

Descriptors: Competency-Based-Education. Course-Descriptions. Institutional-Cooperation. Material-Development. Medical-Record-Technicians. Technology.

Identifiers: State. Proposal.

Competency-oriented course syllabi will be developed for courses at Spokane, Tacoma, and Shoreline Community Colleges and for all remaining medical record technology professional courses. Curriculum from the three programs will be used to select common courses, using criteria developed. Course design format will be adopted, syllabi organization will be determined, and the first draft of the common course syllabi will be written. The syllabi will be revised based on evaluations obtained from Tacoma and Shoreline. The syllabi then will be field-tested in medical records technology courses. Data of student mastery of competencies will be gathered and evaluated for revision of field-tested syllabi. The printed syllabi will be evaluated by students, faculty members, and the advisory committee. The syllabi, evaluation instruments, and a final report will be delivered.

WA8413318.

Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc.

Project Director: Mitchell, Gary; Campbell, Lee

Organization: Spokane Community College North 1810 Greene Street, Spokane, WA 99207.

Telephone: (509) 536-7069.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASC(155)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Computer-Assisted-Instruction. Feasibility-Studies. Material-Development. School-Business-Relationship. Technological-Advancement. Videodisc-Recordings.

Identifiers: State. Proposal. *Computer Assisted Design. *Computer Assisted Manufacturing.

Research will be conducted of the feasibility of using integrated computer-assisted instruction (CAI) with videodisc as an educational tool within industry. Industry needs for CAD/CAM instruction will be updated, and a high technology firm where the greatest needs are identified will be selected for linkage with a community college vocational program. A software program for the interactive videodisc then will be written and evaluated, including testing, debugging, modifying, and verifying system potential. CAI videodisc delivery systems then will be implemented. A final report will be delivered.

WA8413319.

Improving the Vocational Curriculum: Basic Business Skills for Vocational Students.

Project Director: Williamson, Bert; Stroosma, Peter

Organization: Skagit Valley College 2405 College Way, Mount Vernon, WA 98273.

Telephone: (206) 428-1261.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASQ(153)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,080.

Descriptors: Business-Administration. Job-Skills. Units-of-Study.

Identifiers: State. Proposal.

Curriculum will be developed for a class or classes to provide vocational students with survival skills in business management. An instrument will be developed or located for testing vocational students. Findings from the testing will be summarized and the curriculum will be developed. Following implementation and testing of the unit in a classroom, the curriculum will be finalized and published. The principal investigator will keep a journal for evaluation, and the advisory committee will review the curriculum. A final report will be delivered.

WA8413320.

Expanding the Respiratory Therapy Curriculum.

Project Director: Mitchell, Myrtle; Allenbaugh, Pat

Organization: Seattle Central Community College 1701 Broadway, Seattle, WA 98122.

Telephone: (206) 587-4161.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASP(152)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,293.

Descriptors: Developmental-Programs. Inhalation-Therapists. Learning-Strategies. Program-Development. Program-Length. Sequential-Approach.

Identifiers: State. Proposal.

The program will be expanded into a seven-quarter A. A. S. degree program incorporating a developmental pathway with specific respiratory therapy content for nontraditional students. The college's current four-quarter curriculum will be compared with JRCRTE therapist requirements, and a successful development learning strategy will be chosen. Input will be solicited from math and science consultants for content and sequencing of development courses in math, physics, chemistry, and biology. Also, current computer-based instruction modules appropriate to the respiratory therapy curriculum will be reviewed. The curriculum then will be sequenced and learning objectives written. The proposed curriculum will be reviewed with the respiratory therapy advisory committee and college staff and revised as necessary. A final report will be delivered.

WA8413321.

Implementation of Submerged Arc Welding Training.

Project Director: Bowick, Earl; Todd, John

Organization: Seattle Central Community College 1701 Broadway, Seattle, WA 98122.

Telephone: (206) 587-6922.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ATP(151)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $1,961.

Descriptors: Entry-Workers. Minimum-Competencies. Program-Implementation. Welding.

Identifiers: State. Proposal. *Submerged Arc Welding.

Implementation of training in submerged arc welding (SAW) will involve compilation of a standard of minimal entry-level skills desired by the major users of SAW in western Washington. It is proposed that successful student performance be measured against this standard. Behavioral objectives will be developed with the assistance of the advisory committee and principal users. Required equipment will be procured, then set up and tested within the welding training laboratory. Workmanship samples will be constructed, and step-by-step student exercises will be formulated. Following implementation and evaluation with spring 1984 students, the program will be modified and re-evaluated as required. A final report will be delivered.

WA8413322.

Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care.

Project Director: Huston, Fred; Wrynn, Linda

Organization: Big Bend Community College Twenty-eighth and Chaute Streets, Moses Lake, WA 98837.

Telephone: (509) 762-5351.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASK(145)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,494.

Descriptors: Computer-Oriented-Programs. Computer-Programs. Guidelines. Material-Development. Nursing-Education.

Identifiers: State. Proposal.

The curriculum and an appropriate software package will be developed for teaching microcomputer usage in the delivery of patient care. Advice will be sought from community colleges, health care facilities, and computer representatives. The format for the instructional module then will be developed, and the software package will be prepared. Finally, instructional guidelines will be prepared. The six community colleges involved, hospital personnel, and students will evaluate the program. The software package, instructional guidelines, and final report will be delivered.

WA8413323.

Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes.

Project Director: Honsberger, Marion PNONE: (206) 771-1500.

Organization: Edmonds Community College 20000 Sixty-eighth Avenue, West, Lynnwood, WA 98036.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASL(146)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Computer-Oriented-Programs. Court-Reporters. Lesson-Plans. Scripts. Teaching-Guides.

Identifiers: State. Proposal. *Hands On Experience.

Curricula and materials will be developed for teaching hands-on, computer-assisted court reporting. A California reporting school using XScribe will be visited. Scripts for audio- and videotaping will be written, as well as lesson plans. The taping sessions will be scheduled and a strategy written for accommodating all students. Logistics and lesson plans will be reviewed. Instructor materials then will be developed. Evaluation will consist of analysis of student transcript production and colleague analysis of the project. The final report on the XScribe system will include a guide and materials.

WA8413324.

Computer Software for Forestry Technology Curricula.

Project Director: Watson, Roy; Scobie, Walter

Organization: Green River Community College 12401 SE 320th Street, Auburn, WA 98002.

Telephone: (206) 833-9111.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASM(147)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Computer-Programs. Data-Processing. Forestry. Material-Development. Units-of-Study.

Identifiers: State. Proposal.

Basic language software will be developed for teaching forestry concepts and data computation. The college's materials will be adapted to include the new software and usage instruction. Students will learn to use microcomputers as necessary. Existing software will be adapted for forestry technology programs, and at least one software instructional unit will be developed. After review by the forestry technology advisory committee, the new software units will be distributed to other community colleges. A test group of forestry students who will use the materials will be evaluated against those who did not use the materials. A final report and at least one course of forestry technology for use on the Apple computer will be delivered.

WA8413325.

Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).

Project Director: Charnley, Lucile; Snyder, Nancy

Organization: North Seattle Community College 9600 College Way, South, Seattle, WA 98103.

Telephone: (206) 634-4700.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-ASN(148)NB.

Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Course-Objectives. Instructional-Materials. Laboratory-Experiments. Material-Development. Teaching-Guides.

Identifiers: State. Proposal. *Computer Assisted Design. *Computer Assisted Drafting.

After a survey of area industry needs, the curriculum description and course objectives will be developed. The CAD/D experience, course objectives, and lab projects then will be prepared and described. Next, an instructor guide and instructional materials will be prepared. Industry representatives and educational colleagues will evaluate the revised curriculum. A final report and the revised curriculum will be delivered.

WA8413326.

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System.

Project Director: Walton, James; Churchley, Philip
Organization: Peninsula College 1502 East Lauridsen Boulevard, Port Angeles, WA 98362.
Telephone: (206) 452-9277.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ASO(150)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,499.
Descriptors: Chemical-Analysis. Computer-Oriented-Programs. Fisheries. Material-Development. Paraprofessional-Personnel. Program-Development. Videotape-Recordings. Water-Quality.
Identifiers: State. Proposal.

Ten interactive microcomputer-controlled videotape training programs in chemical analysis of water quality will be developed for use with the Apple II and a random access videotape recorder. A media specialist will assist the chemistry instructor and the fisheries instructor in developing the training materials, using audiovisual equipment already on campus. Program development will include planning, script writing, filming, and preparation of materials for computer-assisted instruction. Formative evaluation will consist of student comprehension analysis, student opinion, and peer appraisal. A final report and ten training videotapes will be delivered.

WA8413327.
Vocational Cooking Class.
Project Director: Morton, Kathy
Organization: Willapa Valley School District Menlo, WA 98561.
Telephone: (206) 942-2006.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ATK(188)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,494.
Descriptors: Employment-Potential. Entry-Workers. Food-Service.
Identifiers: State. Proposal. *Hands On Experience.

Students will be provided with competitive, motivational, hands-on experience to prepare for entry-level jobs in the food services area. First, the instructor will be provided with needed training according to vocational certification evaluation. Students then will be preregistered, and the program proposal will be submitted to SPI. Classroom materials, a computer, and textbooks then will be ordered, and students will receive orientation. Following instruction, including rotation of work stations and testing, a follow-up survey will be conducted. Using advisory committee recommendations and results from the survey, the curriculum will be revised as needed. The curriculum and a final report will be delivered.

WA8413328.
Business and Office Curriculum Update.
Project Director: Kjosness, Iva
Organization: Zillah High School PO Box 225, Zillah, WA 98953.
Telephone: (509) 829-5565.
Sponsoring Agency: West Virginia State Dept. of Education, Charleston.
Contract/Control No.: CN: 84-ATL(189)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,490.
Descriptors: Computer-Oriented-Programs. Computer-Programs. Learning-Modules. Material-Development. Office-Occupations-Education.
Identifiers: State. Proposal.

Computer use will be integrated into all business subject areas including bookkeeping and accounting, recordkeeping, keyboarding, office procedures, and data and word processing. Business simulations and software will be used in present classes to assess student need in understanding instructions and using programs. Next, visits will be made to at least two schools using computers in business classes. A catalog and description will be prepared of existing publicly available disks relating to business and office education, and additional software will be purchased. The curriculum then will be rewritten and learning activity packets prepared. Following a field test in various business and office education classes, the new curriculum and learning activity packets will be revised as necessary. Program evaluation will focus on increased student interest and learning. The curriculum and a final report will be delivered.

WA8413329.
Revision and Development of Two Curriculum Guides for Vocational Agriculture.
Project Director: Cvancara, Joe
Organization: Washington State University 223 Agricultural Sciences, Pullman, WA 99164.
Telephone: (509) 335-2940.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ATJ(186)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,497.
Descriptors: Agricultural-Education. Curriculum-Guides. Material-Development.
Identifiers: State. Proposal.

The instructional materials developed will be made available to vocational agriculture secondary programs, skills centers, and vocational-technical institutes in Washington. An advisory committee will be established to determine format for the materials. Project staff will further develop each study by meeting with the authors, making revisions, rewriting, identifying changes, and developing a format usable for agriculture teachers. Subject matter then will be collected and assimilated into an organized curriculum. After advisory committee review, the guides will be pilot tested with selected teachers. Advisory committee members, agricultural staff, and agriculture teachers will evaluate the project. The curriculum guides and a final report will be delivered.

WA8413330.
Crops and Soils Curriculum Guide.
Project Director: Pals, Doug; Ledington, Richard
Organization: University of Idaho Department of Agricultural and Extension Education, 224 Morrill Hall, Moscow, ID 83843.
Telephone: (208) 885-6358.
Sponsoring Agency: Idaho State Dept. of Education, Boise.
Contract/Control No.: CN: 84-ATI(185)NB.
Funding Period: Start Date 10 Jan 84; End Date 30 Jun 85.
Fiscal Year Funding: $14,745.
Descriptors: Agricultural-Education. Curriculum-Guides. Field-Crops. Material-Development. Soil-Sciences.
Identifiers: State. Proposal.

The curriculum guides will be developed for use in Washington and Idaho vocational agriculture programs. Project staff will meet with the project advisory committee at the Idaho Vocational Agriculture Teachers Conference, and the assistant director, selected to be primarily responsible for developing the guides, will attend a curriculum writing workshop in Oklahoma. Curriculum guides from other states will be reviewed, and the first unit in the soils curriculum will be developed. After selected Washington vocational agriculture instructors have identified additional units to be developed, the soils and crops curriculum guides will be completed; preliminary reports will be submitted to funding agencies. Completed guides will be distributed to vocational agriculture instructors through inservice workshops. The guides and a final report will be delivered.

WA8413331.
Programed Computer-assisted Basic Electronics.
Project Director: Primavera, Joanne; Greco, Paul
Organization: Renton Vocational-Technical Institute 3000 NE Fourth Street, Renton, WA 98055.
Telephone: (206) 235-2352.
Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.
Contract/Control No.: CN: 84-ATH(184)NB.
Funding Period: Start Date 10 Jan 84; End Date 31 Dec 84.
Fiscal Year Funding: $2,492.

Descriptors: Computer-Assisted-Instruction. Computer-Programs. Electronics. Introductory-Programs. Material-Development.

Identifiers: State. Proposal.

The 360-hour computer software package developed will be capable of updating to CPM-compatible computers at the institute. A task analysis of the basic electronics program will be completed and approved by the advisory committee. Next, CPM-compatible computers will be programmed to allow students to learn basic electronics information. Programmed information then will be entered into the software program. Students will field-test the program as it is developed, and formal evaluations will be given to the students following each unit of instruction. The software package and a final report will be delivered.

WA8413332.

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.

Project Director: Wilson, Blaine R.

Organization: Central Washington University Department of Business Education and Administrative Management, Ellensburg, WA 98926.

Telephone: (504) 963-3673.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWA(230)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,492.

Descriptors: Behavioral-Objectives. Curriculum. Curriculum-Guides. Distributive-Education. Long-Range-Planning. Marketing. State-Programs. Statewide-Planning.

Identifiers: State. Proposal.

Tasks identified in research completed on marketing and distributive occupations will be used to develop, sequence, and organize broad objectives into marketing and distributive education (MDE) units of instruction. A plan then will be developed detailing a long-range program for rewriting Washington's outdated MDE curriculum materials. Evaluation of the project at various phases will be conducted by a task force of MDE teacher coordinators, MDE area leaders, leadership of the Washington Association of Marketing Educators, and the SPI MDE director. The student learning objectives, the curriculum management plan, and a final report will be delivered.

WA8413333.

Developing a Model Vocational Agriculture Curriculum for High Schools in North Central Washington.

Project Director: Rasmussen, Steve

Organization: Eastmont School District #206 406 NE Ninth Street, East Wenatchee, WA 98801.

Telephone: (509) 884-6665.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWB(231)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Agricultural-Education. Curriculum. Regional-Programs.

Identifiers: State. Proposal.

Through a combined effort with the Eastmont and Wenatchee School districts, a comprehensive vocational agriculture curriculum will be developed for use in the region. The project team, consisting of two vocational agriculture teachers from each district, the vocational director, and a secretary, will develop the pilot curriculum in the summer for implementation in the fall of 1984. Project evaluation will be conducted by the vocational director in consultation with teachers, students, counselors, and administrators. The curriculum and a final report will be delivered.

WA8413334.

Telecommunications.

Project Director: Burmester, Allan; Strong, Sue

Organization: North Thurston School District 6202 Pacific Avenue, SE, Olympia, WA 98503.

Telephone: (206) 456-7737.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWC(232)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Curriculum. Data-Processing. Office-Occupations-Education. Telecommunications. Word-Processing.

Identifiers: State. Proposal.

Curriculum will be revised to reflect the use of telecommunications equipment and make students aware of its role in the modern office. Teachers from two high schools will make the necessary curriculum changes. They then will develop a needs assessment and communicate these needs to the district's computer specialist. Finally, teachers will be trained in the use of data transmittal equipment and in the use of text transfer, receiving, and sending using the modem via ASCII Express. The district's business and office advisory committee will evaluate the curriculum. A final report and the revised curriculum will be delivered.

WA8413335.

Defining Math and Science Competencies in Vocational Programs.

Project Director: Carlson, Jan; Mesaros, Margaret

Organization: Sno-Isle Vocational Skills Center 9001 Airport Road, Everett, WA 98204.

Telephone: (206) 353-8810.

Sponsoring Agency: Washington State Commission for Vocational Education, Olympia.

Contract/Control No.: CN: 84-AWD(233)NB.

Funding Period: Start Date 01 May 84; End Date 31 Dec 84.

Fiscal Year Funding: $2,500.

Descriptors: Basic-Skills. Competence. Credits. Curriculum. Learning-Modules. Skill-Development.

Identifiers: State. Proposal.

The curriculum package developed will define specific math, science, or language arts skills presently being taught in each of the center's eleven programs, in order to provide high school academic credit. Specific competencies for each academic discipline being taught within individual programs will be delineated, defining content, activities, references, and method of evaluation. Classroom instruction hours, instructional areas, hours of hands-on application, and hours of assigned homework will be identified. Specific and defined academic competencies for students then will be developed as part of the instructional program. This information will be submitted to the cooperative curriculum committee and the administrative council for review and approval. These activities will lead to a better understanding among academic instructors of the basic skills competencies needed in vocational training programs. Model math and competency packets developed for the Sno-Isle training programs will be available to other skills centers and vocational programs. The curriculum and a final report will be delivered.

West Virginia

Curriculum Development (Sec. 133)

WV8413301.

Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing.

Project Director: Gunter, Sandra

Organization: Kanawha County Schools Herbert Hoover High School, 275 Elk River Road, South, Clendenin, WV 25045.

Telephone: (304) 965-3394.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-7; PN: BVTAE-76-WV-84-E-7.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Computer-Assisted-Instruction. Computer-Programs. Distributive-Education. Job-Analysis. Job-Skills. Microcomputers.

Identifiers: State. Proposal.

The use of microcomputers to teach distribution and marketing will be studied. Distribution and marketing occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia distribution and marketing teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413302.

Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial.

Project Director: Bailey, Herley L.

Organization: Mercer County Vocational Technical Center 105 Old Bluefield Road, Princeton, WV 24740.

Telephone: (304) 425-9551.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-6; PN: BVTAE-76-WV-84-E-6.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Computer-Assisted-Instruction. Computer-Programs. Job-Analysis. Job-Skills. Microcomputers. Trade-and-Industrial-Education.

Identifiers: State. Proposal.

The use of microcomputers to teach trade and industrial education will be studied. Industrial occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia trade and industrial teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413303.

Using Microcomputers in Vocational Education To Teach Skills Needed in Health.

Project Director: Truman, Peggy

Organization: Raleigh County Schools Raleigh County Vocational-Technical Center, 410 1/2 Stanaford Road, Beckley, WV 25801.

Telephone: (304) 252-6346.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-5; PN: BVTAE-76-WV-84-E-5.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Allied-Health-Occupations. Allied-Health-Occupations-Education. Computer-Assisted-Instruction. Computer-Programs. Job-Skills. Microcomputers.

Identifiers: State. Proposal.

The use of microcomputers to teach health occupations education will be studied. Allied health occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia health education teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413304.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.

Project Director: Preece, Elaine.

Organization: Mason County Board of Education Wahama High School, Mason, WV 25260.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-4; PN: BVTAE-76-WV-84-E-4.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Computer-Assisted-Instruction. Computer-Programs. Consumer-Education. Home-Economics. Homemaking-Skills. Job-Analysis. Job-Skills. Microcomputers. Occupational-Home-Economics.

Identifiers: State. Proposal.

The use of microcomputers to teach home economics education will be studied. Home economics occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia vocational home economics teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413305.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.

Project Director: Conrad, Debra.

Organization: Randolph County Schools 40 Eleventh Street, Elkins, WV 26241.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-3; PN: BVTAE-76-WV-84-E-3.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $1,501.

Descriptors: Business-Education. Business-Skills. Computer-Assisted-Instruction. Computer-Programs. Job-Analysis. Job-Skills. Microcomputers. Office-Occupations-Education.

Identifiers: State. Proposal.

The use of microcomputers to teach business education will be studied. Business occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia business teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413306.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts.

Project Director: Murray, Michael

Organization: Cabell County Board of Education Ona Junior High School, Ona, WV 25545.

Telephone: (304) 736-6572.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-2; PN: BVTAE-76-WV-84-E-2.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Computer-Assisted-Instruction. Computer-Programs.

Industrial-Arts. Industrial-Education. Job-Analysis. Job-Skills. Microcomputers.

Identifiers: State. Proposal.

The use of microcomputers to teach industrial arts will be studied. Industrial arts occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia industrial arts teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413307.

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture.

Project Director: Stephens, Donald

Organization: Jackson County Board of Education Ravenswood High School, Ravenswood, WV 26164.

Telephone: (304) 372-9103.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: WV-84-E-1; PN: BVTAE-76-WV-84-E-1.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $4,200.

Descriptors: Agricultural-Education. Agricultural-Occupations. Computer-Assisted-Instruction. Computer-Programs. Job-Analysis. Job-Skills. Microcomputers.

Identifiers: State. Proposal.

The use of microcomputers to teach agricultural education will be studied. Agricultural occupations which require the use of computers will be identified, as well as the computer skills needed. West Virginia vocational agriculture teachers will evaluate software currently being used. Additional software will be identified and evaluated. Computer-assisted instruction will be used where feasible. A written report of project outcomes and materials will be delivered.

WV8413308.

Competency Development for Industrial WVTS Construction Technology (Grades 5-8).

Project Director: Hasen, Donald L.

Organization: West Virginia Institute of Technology West Virginia Institute of Technology, Montgomery, WV 25136.

Telephone: (304) 442-3071.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: CD-4-2; PN: BVATE-76-WV-84-C-2.

Funding Period: Start Date 15 Dec 83; End Date 30 Apr 84.

Fiscal Year Funding: $3,057.

Descriptors: Building-Trades. Check-Lists. Competence. Construction-Industry. Construction-Process. Industrial-Arts. Technology.

Identifiers: State. Proposal.

A validated list of competencies in construction technology for industrial arts for grades 5-8 will be developed. Existing materials and techniques will be reviewed and the competencies written and validated via teacher surveys. A presentation on the project will be held and the competency lists submitted for review.

WV8413309.

Competency Development for Industrial Arts Transportation Technology (Grades 5-8).

Project Director: Griscom, Bill

Organization: Industrial Arts Education Fairmont State College, Fairmont, WV 26554.

Telephone: (304) 367-4156.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: CD-4-1; PN: BVTAE-76-WV-84-C-1.

Funding Period: Start Date 15 Dec 83; End Date 30 Apr 84.

Fiscal Year Funding: $3,057.

Descriptors: Check-Lists. Competence. Industrial-Arts. Technology. Transportation.

Identifiers: State. Proposal.

A validated list of competencies in transportation technology for industrial arts for grades 5-8 will be developed. Existing materials and techniques will be reviewed and the competencies written and validated via teacher surveys. A presentation on the project will be held and the competency lists submitted for review.

WV8413310.

Competency Development for Industrial Arts Manufacturing Technology (Grades 5-8).

Project Director: Hasen, Donald L.

Organization: West Virginia Institute of Technology Montgomery, WV 25136.

Telephone: (304) 442-3071.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: CD-4-3; PN: BVATE-76-WV-84-C-3.

Funding Period: Start Date 15 Dec 83; End Date 30 Apr 84.

Fiscal Year Funding: $3,057.

Descriptors: Competence. Industrial-Arts. Manufacturing. Technology.

Identifiers: State. Proposal.

A validated list of competencies in manufacturing technology for industrial arts for grades 5-8 will be developed. Existing materials and techniques will be reviewed and the competencies written and validated via teacher surveys. A presentation on the project will be held and the competency lists submitted for review.

WV8413311.

Prevocational Business and Office Competency-based Education Curriculum Revision.

Project Director: Reese, Clara

Organization: Cabell County Board of Education PO Box 446, Huntington, WV 25709.

Telephone: (304) 526-9800.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: CD-4-5; PN: BVTAE-76-WV-C-5.

Funding Period: Start Date 01 Mar 84; End Date 30 Jun 84.

Fiscal Year Funding: $4,949.

Descriptors: Business-Education. Competency-Based-Education. Office-Occupations-Education. Prevocational-Education.

Identifiers: State. Proposal.

West Virginia educators will establish curriculum content. Forty-five hours of instruction then will be developed using state-approved prevocational curriculum format and appropriate occupational titles. An artist will provide appropriate cartoons and drawings to enhance the materials. Camera-ready copy of student and teacher curriculum materials then will be produced. A presentation on the curriculum will be made at the WVVA Conference.

WV8413312.

Competency-based Education Curriculum Development for Homemaking Materials (Continuation of WV8313302).

Project Director: Vickers, Carole

Organization: Marshall University Huntington, WV 25701.

Telephone: (304) 696-2356.

Sponsoring Agency: West Virginia State Dept. of Education, Charleston.

Contract/Control No.: CN: C-D-4-7; PN: BVTAE-76-WV-84-C-7-X.

Funding Period: Start Date 01 Apr 84; End Date 15 Jun 84.

Fiscal Year Funding: $1,137.

Descriptors: Check-Lists. Competency-Based-Education. Homemaking-Skills. Skill-Analysis.

Identifiers: State. Proposal.

Competency-based curriculum will be developed for homemaking courses. Existing materials will be reviewed to identify homemaker competencies, and student competency sheets will be written.

WV8413313.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308).

Project Director: Griscom, Bill

Organization: Fairmont State College Fairmont, WV 26554.

Telephone: (304) 367-4156.
Sponsoring Agency: West Virginia State Dept. of Education, Charleston.
Contract/Control No.: CN: CD-4-6; PN: BVTAE-76-WV-84-C-6-X.
Funding Period: Start Date 01 Apr 84; End Date 30 Apr 84.
Fiscal Year Funding: $287.
Descriptors: Check-Lists. Competence. Competency-Based-Education. Industrial-Arts. Surveys. Validity.
Identifiers: State. Proposal. *Communication Technology.

A survey will be conducted to validate previously defined competency statements for communication technology in grades 5-8. A validated listing of competencies will be produced.

WV8413314.
Competency-based Education Curriculum Revision/Upgrading.
Project Director: Sommer, A. E., Jr.
Organization: Mason County Board of Education 307 Eighth Street, Point Pleasant, WV 25550.
Telephone: (304) 675-3039.
Sponsoring Agency: West Virginia State Dept. of Education, Charleston.
Contract/Control No.: CN: C-D-4-8; PN: BVATE-76-WV-84-C-8.
Funding Period: Start Date 15 May 84; End Date 30 Jun 84.
Fiscal Year Funding: $2,768.
Descriptors: Child-Care-Occupations. Competency-Based-Education. Law-Enforcement. Medical-Assistants. Nurses-Aides. Units-of-Study.
Identifiers: State. Proposal. *Electrocardiography.

Consultants will be hired to complete development activities for four curricula. A narcotics section will be completed for the law enforcement curriculum, and an electrocardiography section will be developed for the medical assistant curriculum. Camera-ready copy will be produced for the nursing assistant and occupational child care curricula.

WV8413315.
Competency Development of a Hospitality Curriculum.
Project Director: Darcliff, Judith
Organization: Fairmont State College Home Economics Department, Fairmont, WV 26554.
Telephone: (304) 367-4271.
Sponsoring Agency: West Virginia State Dept. of Education, Charleston.
Contract/Control No.: CN: CD-4-9; PN: BVTAE-76-WV-84-C-9.
Funding Period: Start Date 31 May 84; End Date 30 Jun 84.
Fiscal Year Funding: $3,240.
Descriptors: Check-Lists. Competence. Competency-Based-Education. Food-Service. Hospitality-Occupations. Job-Analysis. Validity.
Identifiers: State. Proposal.

A comprehensive list of competencies required for the food service component of the hospitality industry will be developed through a literature review. Persons with expertise in the field then will review the competency list, which will be validated. The list will be used to develop the curriculum under a subsequent contract.

Wisconsin

Research (Sec. 131)

WI8413101.

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105).

Project Director: Nelson, Orville.

Organization: University of Wisconsin—Stout Menomonie, WI 54751.

Sponsoring Agency: Wisconsin State Board of Vocational, Technical, and Adult Education, Madison.

Contract/Control No.: CN: 30-103-150-314.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Curriculum-Study-Centers. Delivery-Systems. Information-Dissemination. Needs-Assessment. Newsletters. Program-Evaluation. Research.

Identifiers: State. Proposal.

Center staff will assist vocational educators in determining needs, designing studies, conducting research, evaluating programs, and disseminating materials. The center advisory committee and additional ad hoc committees will be used as needed. A newsletter of activities will be published.

Curriculum Development (Sec. 133)

WI8413301.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).

Project Director: Strong, Merle E.

Organization: University of Wisconsin—Madison 964 Education Science Building, 1025 West Johnson Road, Madison, WI 53706.

Telephone: (608) 263-2714.

Sponsoring Agency: Wisconsin State Board of Vocational, Technical, and Adult Education, Madison.

Contract/Control No.: CN: 200—011-150-314.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Bibliographies. Brochures. Conferences. Curriculum. Curriculum-Study-Centers. Delivery-Systems. Information-Dissemination. Instructional-Materials. Library-Services. Resource-Centers.

Identifiers: State. Proposal.

Current curriculum and instructional resources will be gathered and disseminated for use by vocational teachers and administrators. Acquisitions will be reviewed, cataloged, and disseminated upon request through a library loan system. Bibliographies, brochures, and lists of holdings will be published. Finally, conferences on microcomputers will be conducted. Conference participants will evaluate the program.

WI8413302.

Agricultural Curriculum Development.

Project Director: Fontaine, Cletus

Organization: Wisconsin Board of Vocational, Technical, and Adult Education 4802 Sheboygan Avenue, 7th Floor, PO Box 7874, Madison, WI 53707.

Telephone: (608) 266-2351.

Sponsoring Agency: Wisconsin State Board of Vocational, Technical, and Adult Education, Madison.

Contract/Control No.: PN: 19-017-150-314.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $3,000.

Descriptors: Agribusiness. Agricultural-Education. Curriculum-Development. Curriculum-Guides. Learning-Modules. Money-Management. Teaching-Guides.

Identifiers: State. Proposal.

New teaching packages will be developed or existing teaching packages revised in farm business and financial management. Board and university staff will be identified to review existing materials and develop needed materials. A curriculum guide and a teacher's manual will be produced. Participants will evaluate the program.

Wyoming

Research (Sec. 131)

WY8413101.

Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates.

Project Director: Barr, Lowell

Organization: University of Wyoming Department of Vocational Education, College of Education, Laramie, WY 82071.

Telephone: (307) 745-8347.

Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.

Contract/Control No.: CN: III-8-84.

Funding Period: Start Date 01 Jan 84; End Date 01 Jun 84.

Fiscal Year Funding: $79.

Descriptors: Competence. Entry-Workers. High-School-Graduates. Job-Skills. Occupational-Surveys. School-Business-Relationship.

Identifiers: State. Proposal.

The steering committee will provide mailing labels and instruments to survey Wyoming businesses. Survey results will be compiled in written report form and distributed to Wyoming business teachers to inform them of needed changes in their curricula.

WY8413102.

Vocational Studies Center—Research Component (Continuation of WI8313104).

Project Director: Strong, Merle G.

Organization: University of Wisconsin—Madison 964 Education Science Building, 1025 West Johnson Street, Madison, WI 53706.

Telephone: (608) 263-2714.

Sponsoring Agency: Wisconsin State Board of Vocational, Technical, and Adult Education, Madison.

Contract/Control No.: CN: 20-010-150-314.

Funding Period: Start Date 01 Jul 83; End Date 30 Jun 84.

Fiscal Year Funding: $25,000.

Descriptors: Conference-Proceedings. Information-Dissemination. Needs-Assessment. Proposal-Writing. Research. Research-and-Development.

Identifiers: State. Proposal.

Center staff will identify needs, develop proposals, design studies, conduct and disseminate research, and provide technical assistance to vocational educators. Necessary university resources will be solicited. Also, necessary conferences will be conducted, and research and development products will be disseminated. Conference reports will be delivered. Participants will evaluate conferences, seminars, and workshops.

Curriculum Development (Sec. 133)

WY8413301.

Reversing the Trend toward Sex Role Stereotyping in Schools.

Project Director: Bard, Karen

Organization: Albany County School District #1 Laramie Junior High School, 1355 North Twenty-second Street, Laramie, WY 82070.

Telephone: (307) 745-2938.

Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.

Contract/Control No.: CN: III-56-83CO.

Funding Period: Start Date 01 Apr 84; End Date 01 Jun 84.

Fiscal Year Funding: $1,060.

Descriptors: Administrators. Curriculum-Development. Elementary-Education. Elementary-School-Teachers. Health-Education. Inservice-Education. Junior-High-Schools. Secondary-School-Teachers. Sex-Fairness. Workshops.

Identifiers: State. Proposal.

A one-day workshop for elementary and junior high teachers and administrators will be held to ensure sex equity in the curriculum. Strategies for integrating sex equity into health education will be explored. Methods will include films, texts, audiovisual materials, and classroom activities. A plan will be developed to create a district-wide sex equity inservice session. Each attendant will complete a workshop evaluation instrument, and a final report will be delivered.

WY8413302.

A Study to Determine the Success of Girls in Vocational Agriculture Programs.

Project Director: Durkee, James R.; Reynolds, Carl L.

Organization: University of Wyoming Department of Vocational Education, College of Education, Laramie, WY 82071.

Telephone: (307) 766-4188.

Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.

Contract/Control No.: CN: III-57-83CO.

Funding Period: Start Date 01 Mar 84; End Date 30 Jun 84.

Fiscal Year Funding: $1,060.

Descriptors: Agricultural-Education. Farm-Occupations. Females. High-School-Students. Research-Projects. Success. Student-Participation. Supervised-Farm-Practice.

Identifiers: State. Proposal. *Financial Success.

The level of participation by girls in supervised occupational experience (SOE) will be determined, as well as the financial success of girls compared to boys in SOE and the enterprises selected by girls compared to those selected by boys. Present data on SOE will be compared with data of past years to determine increase in participation by girls. All vocational agriculture teachers in the state will collect data from each student enrolled in vocational agriculture on their SOE programs for 1983. The data will be tabulated and analyzed, and a summary report will be prepared. Results will be distributed to all vocational agriculture teachers.

WY8413303.

Career Exploration for Women in Nontraditional Roles.

Project Director: White, Mary I.

Organization: Platte County School District #1 Wheatland, WY 82201.

Telephone: (307) 322-2433.

Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.

Contract/Control No.: CN: III-58-83CO.

Funding Period: Start Date 02 Apr 84; End Date 30 Jun 84.

Fiscal Year Funding: $1,135.

Descriptors: Career-Exploration. High-School-Students. Nontraditional-Occupations. Occupational-Information. Purchasing. Resource-Materials.

Identifiers: State. Proposal.

Career exploration resource materials for women in nontraditional jobs or professionals will be purchased for the Realistic Education-Active (REAL) program, in which students in grades 9-12 can develop vocational interests into realistic business and computer projects. Use of the resource materials by female students will be measured.

WY8413304.

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School.

Project Director: Nelson, Jim

Organization: Laramie County School District #1 East High School, 2800 East Pershing Boulevard, Cheyenne, WY 82001.

Telephone: (307) 635-2481.

Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.

Contract/Control No.: CN: III-59-83CO.

Funding Period: Start Date 01 Mar 84; End Date 30 Jun 84.
Fiscal Year Funding: $1,060.
Descriptors: Cooperative-Education. Job-Search-Methods. Occupational-Information. Purchasing. Resource-Materials. Sex-Fairness. Tenure. Visual-Aids.
Identifiers: State. Proposal. Diversified Cooperative Education.

The 'Making It Work' videokit will be ordered for the diversified cooperative education program. Students will receive knowledge on traditional and nontraditional occupations and learn job-seeking and job-keeping skills. Student demand for the materials and assessment by a project consultant will constitute the evaluation. A final report will be delivered.

WY8413305.

Reducing Sex Bias in the Career Education of Students in Grades 3-6.

Project Director: Maddox, Cindy
Organization: Moorcroft Schools PO Box 158, Moorcroft, WY 82721.
Telephone: (307) 756-3446.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: III-60-83CO.
Funding Period: Start Date 01 Mar 84; End Date 25 May 84.
Fiscal Year Funding: $1,000.
Descriptors: Career-Awareness. Elementary-Education. Instructional-Materials. Sex-Fairness.
Identifiers: State. Proposal.

Books, filmstrips, videotapes, slides, and other teaching materials will be reviewed to identify those most relevant to sex fair vocational education career projects for elementary students. Those most appropriate for grades 3-6 and for effective use by teachers and counselors will be selected. A curriculum then will be devised incorporating the materials. An inservice session for elementary and junior high school teachers will be conducted on use of the materials. A final report will be delivered.

WY8413306.

Promotion of Equity in Vocational Education.

Project Director: Deaver, Jim
Organization: Albany County School District #1 1948 Grand Avenue, Laramie, WY 82070.
Telephone: (307) 742-2179.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: III-61-83CO.
Funding Period: Start Date 01 Mar 84; End Date 30 Jun 84.
Fiscal Year Funding: $1,060.
Descriptors: Career-Choice. Decision-Making. Guides. High-School-Students. Nontraditional-Occupations. Resource-Materials.
Identifiers: State. Proposal.

Staff will research education catalogs to find a variety of resources to assist students in making decisions concerning nontraditional jobs. Each resource will be evaluated for degree of stereotyping. Approved resources will be written up in a descriptive guide and distributed to appropriate vocational teachers. A final report also will be delivered.

WY8413307.

Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services.

Project Director: Nelson, Gail
Organization: Laramie County School District #1 East High School, 2800 East Pershing Boulevard, Cheyenne, WY 82001.
Telephone: (307) 635-2481.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: III-62-83CO.
Funding Period: Start Date 01 Mar 84; End Date 30 Jun 84.
Fiscal Year Funding: $699.
Descriptors: Child-Care-Occupations. Child-Development. Occupational-Information. Purchasing. Resource-Materials. Sex-Fairness.
Identifiers: State. Proposal.

Materials will be ordered, purchased, and incorporated into the child development and parenting classes and the cooperative child care services class. Student demand for the materials will constitute the evaluation. A final report will be delivered.

WY8413308.

Creating a Clientele for Vocational Education.

Project Director: Vaughan, Ted W.
Organization: University of Wyoming Jayne Media Center, College of Education, Laramie, WY 82071.
Telephone: (307) 766-3337.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: III-54-83CO.
Funding Period: Start Date 10 Mar 84; End Date 30 Jun 84.
Fiscal Year Funding: $149,655.
Descriptors: Audiotape-Cassettes. Industrial-Education. Information-Dissemination. Instructional-Improvement. Sex-Fairness. Slides. Trade-and-Industrial-Teachers.
Identifiers: State. Proposal.

A slide-sound presentation will be produced to provide Wyoming vocational educators with information on how to revise their programs to reduce sex bias and encourage women to consider industrial education-related careers. Through on-site interviews and photo-documentation, the presentation will show how selected teachers have approached the problem of sex stereotyping; provide information about the experiences of women who have enrolled in industrial education classes; and state the reasons given by women for not enrolling in industrial education classes. The documentary, provided with ANSI standard IKH2 tone programming on cassette, will be duplicated and made available to all Wyoming secondary and postsecondary institutions. A final report will be delivered.

WY8413309.

Vocational Education—It's Worth a Second Look.

Project Director: Vaughan, Ted W.
Organization: University of Wyoming Jayne Media Center, College of Education, Laramie, WY 82071.
Telephone: (307) 766-3337.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: III-55-83CO.
Funding Period: Start Date 10 Mar 84; End Date 30 Jun 84.
Fiscal Year Funding: $970.
Descriptors: Audiotape-Cassettes. Career-Choice. Career-Exploration. Females. High-School-Students. Industrial-Education. Nontraditional-Occupations. Sex-Fairness. Slides. Student-Recruitment.
Identifiers: State. Proposal.

Women in secondary schools will be encouraged, via a 12-minute slide/sound presentation, to consider careers in industrial education-related trades. The documentary, provided with ANSI standard IKH2 tone programming on cassette, will be duplicated and made available to all Wyoming secondary and postsecondary institutions. A final report will be delivered.

WY8413310.

Project Civil Rights.

Project Director: Duca, John
Organization: Platte County School District #2 Guernsey-Sunrise Junior/Senior High School, 152 West Burlington Street, Guernsey, WY 82214.
Telephone: (307) 836-2743.
Sponsoring Agency: Wyoming State Dept. of Education, Cheyenne.
Contract/Control No.: CN: II-143-83CO.
Funding Period: Start Date 15 Mar 84; End Date 15 May 84.
Fiscal Year Funding: $1,250.
Descriptors: Course-Descriptions. Enrollment-Influences. Females. Industrial-Arts. Pamphlets.
Identifiers: State. Proposal.

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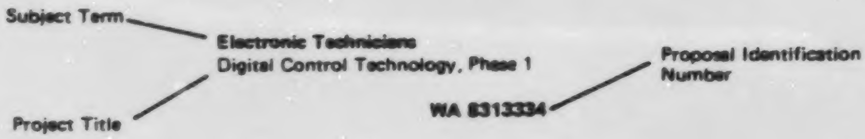
A course description booklet will be printed and distributed to encourage female enrollment in industrial arts classes at Guernsey-Sunrise Junior/Senior High School. The booklet will describe graduation requirements, outline different teaching systems, list prerequisities, provide worksheets and preregistration forms, and provide visual aids.

SUBJECT INDEX

This index lists project titles under the major subject terms assigned to characterize project content. The terms are taken from the *Thesaurus of ERIC Descriptors* and are listed in alphabetical order. (Note: Because projects in this publication are in the broad area of vocational education program improvement, "vocational education" and "program improvement" are not used as major descriptors.) As shown in the example, the proposal identification number is displayed below and to the right of that title. Additional information about the project can be found under that number in the resume section.



Electronic Technicians
Digital Control Technology, Phase 1
WA 8313334

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Academic-Achievement

Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs.
WA8413302.

Pivot A Lift: PAL.
KY8413209.

Promoting Student Achievement.
CA8413303.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).
AR8413203.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Academic-Education

Coordination of Vocational and Academic Curricula.
OH8413102.

Academically Able Exploring Vocations Emerging New Tech

Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
TN8413207.

Academically-Gifted

Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
TN8413207.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Vocational Education—Georgia Outstanding Students.
GA8413213.

Acceleration-Education

Shawnee-Detrick Academic/Vocational Project.
KY8413230.

Accountability

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Accounting

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Administration

Model Management Process for a Statewide Criterion-Referenced Testing Program.
GA8413215.

Administrative-Policy

Update of the Industrial Arts Rationale in Texas.
TX8413104.

Administrative-Principles

Update of the Industrial Arts Rationale in Texas.
TX8413104.

Administrator-Attitudes

A Study of Articulation in Missouri Vocational Technical Programs.
MO8413122.

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

Administrator-Characteristics

Developing a Model for Analyzing Administrators' Professional Commitment in Pennsylvania Postsecondary Technical Schools.
PA8413110.

Administrator-Education

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Administrator-Evaluation

Developing a Model for Analyzing Administrators' Professional Commitment in Pennsylvania Postsecondary Technical Schools.
PA8413110.

Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval.
FL8413106.

Administrator-Guides

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders.
VA8413301.

Program Development and Dissemination.
MI8413302.

Administrator-Qualifications

Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval.
FL8413106.

Administrators

Developing a Model for Analyzing Administrators' Professional Commitment in Pennsylvania Postsecondary Technical Schools.
PA8413110.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions.
CO8413105.

Resource Center.
MO8413302.

Reversing the Trend toward Sex Role Stereotyping in Schools.
WY8413301.

Admission-Criteria

Articulation between Secondary and Postsecondary Vocational-Technical Education.
TN8413212.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System.
NC8413101.

Dissemination of 82-131-600-10(116-116)(B) Admissions Criteria.
MO8413119.

High Technology Training Publication.
IL8413104.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

Adolescents

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Adoption-Ideas

Catalog of Innovations (Continuation of FL8313102).
FL8413118.

Promising Practices Diffusion.
OR8413202.

Adult-Farmer-Education

Farm Business Management and Energy Conservation Adult Programs.
VA8413105.

Adult-Students

Developing the Marketing of the Adult College Reentry Network at Mineral Area College (Continuation of MO8313111).
MO8413123.

The Impaired Nurse: Development of Curriculum and Related Teaching Materials.
NJ8413301.

Advanced-Courses

Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.
LA8413303.

Advanced-Placement

Advanced Placement.
WA8413102.

Articulation between Secondary and Postsecondary Vocational-Technical Education.
TN8413212.

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.
CO8413103.

Advertising

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum. MO8413305.

Advisory-Committees

A Study of Activities and Impact of Advisory Committees on Vocational Programs. OK8413102.

Advisory Committees/Councils Effectiveness. KY8413212.

Industry Panel Curriculum Project. OR8413309.

Staff Development Curriculum for High Technology Instructors. GA8413306.

Advocacy

Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I. WA8413306.

Affective-Measures

Affective Work Competencies in Postsecondary Occupational Education: A Feasibility Study. NY8413103.

After-School-Education

Dropout Prevention Program in Russell County. KY8413217.

Agency-Cooperation

Provide Articulation of the Resources of Secondary School, Area Vocational-Technical School, Community College, Hospital, and Business to Provide Training in High Technology. KS8413201.

Youth Service Job Skills Training and Employment. TN8413204.

Agribusiness

Agricultural Curriculum Development. WI8413302.

Agriculture/Agribusiness Manpower Research. MT8413107.

Determine Personal Characteristics Which Make Students More Employable in Agriculture. MT8413109.

Agricultural-Education

A Study to Determine the Success of Girls in Vocational Agriculture Programs. WY8413302.

Agricultural Curriculum Development. WI8413302.

An Identification of Science Competencies Taught in Secondary Vocational Agriculture. NC8413115.

Cattle Rancher—Sequenced Catalog. SC8413315.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics. AZ8413303.

Computer Assisted Instruction in Existing Vocational Programs. KY8413211.

Computer Assisted Instruction in Feeds and Feeding. MT8413305.

Crops and Soils Curriculum Guide. WA8413330.

Curriculum Development in Agriculture, 1984. OR8413304.

Curriculum Development in Vocational Agriculture. CA8413305.

Determine Personal Characteristics Which Make Students More Employable in Agriculture. MT8413109.

Developing a Competency-based Component for the Connecticut Vocational Agriculture Curriculum. CT8413304.

Developing a Model Vocational Agriculture Curriculum for High Schools in North Central Washington. WA8413333.

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture. PA8413308.

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System. PA8413105.

Illinois Core Curriculum in Agriculture Project. IL8413301.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs. TX8413103.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses. NC8413112.

Microcomputer Program Catalogs for Agriculture/Natural Resources. CA8413302.

Microcomputers in Agricultural Education. VA8413107.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.

Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana. MT8413111.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture. MO8413125.

Revision and Development of Two Curriculum Guides for Vocational Agriculture. WA8413329.

Swine Farmer—Sequence Tasks. SC8413314.

The Development of a Computer-compatible Supervised Occupational Experience (SOE) Record System for Vocational Agriculture. PA8413303.

Updating Vocational Agricultural Curriculum Resource Units. MT8413307.

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture. WV8413307.

Vocational Agriculture 1 (revised 1984). OK8413301.

Vocational Agriculture 2 (revised 1985). OK8413308.

Agricultural-Occupations

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture. WV8413307.

Agricultural-Production

Cattle Rancher—Sequenced Catalog. SC8413315.

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach. PA8413102.

Swine Farmer—Sequence Tasks. SC8413314.

Air Force

Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project. FL8413301.

Alcohol-Education

The Impaired Nurse: Development of Curriculum and Related Teaching Materials. NJ8413301.

Ways of Law. SC8413316.

Allied-Health-Occupations

A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting. MO8413101.

Curriculum Materials: Health Occupations. TX8413309.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System. NC8413101.

Health Occupations Education I (Revision). SC8413310.

Using Microcomputers in Vocational Education To Teach Skills Needed in Health. WV8413303.

Allied-Health-Occupations-Education

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology. TX8413207.

Allied Health Occupations 2—Curriculum Development Project. CT8413301.

Curriculum Development: Postsecondary Emergency Medical Technology Paramedic. TX8413304.

Curriculum Materials: Health Occupations. TX8413309.

Design of a Health Occupations Magnet Program in the Rio Grande Valley. TX8413105.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana. LA8413103.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System. NC8413101.

Health Occupations Education I (Revision). SC8413310.

Medical Records Technicial Program. CO8413201.

Postsecondary/High Technology: Program and Vocational School Model Development. KY8413221.

Science Competencies of Health Occupations Courses. NC8413114.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103). VA8413102.

Using Microcomputers in Vocational Education To Teach Skills Needed in Health. WV8413303.

Alternative High Schools

Employability Voucher System. WA8413104.

Ancillary-School-Services

Special Services for Handicapped Students. NJ8413102.

Women's Employment Resource Center (WERC) Support Services Handbook. CT8413102.

Animal-Husbandry

Cattle Rancher—Sequenced Catalog. SC8413315.

Swine Farmer—Sequence Tasks. SC8413314.

Annotated-Bibliographies

High Technology Curriculum Development and Dissemination. GA8413303.

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators. IL8413122.

Annual-Reports

Microcomputerized Farm Records Management. WA8413307.

Apple II

A Computerized Simulation Program for State Board Examinations in Cosmetology. TX8413203.

Applied Learning

Research and Experimentation in Applied Learning. NJ8413107.

Applied-Linguistics

North Central Washington Spanish Instruction Modules for Business Occupations. WA8413310.

Apprenticeships

Curriculum Development—Summer 1983. CT8413302.

Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305). OR8413311.

Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations. HI8413101.

Articulation

Articulation Research of Business and Office Education. MT8413101.

Articulation-Education

A Study of Articulation in Missouri Vocational Technical Programs. MO8413122.

Advanced Placement. WA8413102.

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105). VA8413103.

Articulation between Secondary and Postsecondary Vocational-Technical Education. TN8413212.

Articulation—Phase I: Spokane Area Vocational Skills Center/Spokane Falls Community College, Development of a Model. WA8413109.

Articulation Project in Engineering Technology Career Awareness. TN8413210.

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs. CO8413103.

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair. KS8413205.

Curriculum Development for Industrial Education Programs. FL8413307.

Unity for a Quality Vocational Delivery System in the Metropolitan Nashville Community. TN8413208.

Associate-Degrees

Follow-up and Evaluation Project. FL8413310.

Medical Records Technicial Program. CO8413201.

Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing. WA8413107.

Attendance

Pivot A Lift: PAL. KY8413209.

Attitude-Change

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System. PA8413105.

Audiotape-Cassettes

Auto and Electrical Trades Instructional Materials Development. NJ8413307.

Creating a Clientele for Vocational Education. WY8413308.

Forestry and Forest Products: Quality Felling and Bucking. OR8413303.

Vocational Education—It's Worth a Second Look. WY8413309.

Audiotape-Recordings

Individualized/Mediated Curriculum Materials Development for Vocational Education. MO8413303.

Vocational Education's Role(s) in Economic Revitalization—Phase 2. IL8413126.

Audiovisual-Aids

Audiovisual Materials for the Disadvantaged (Continuation of DUV 3-1E31). FL8413303.

Develop Competency-based Curriculum for New Course—Electronics for Camera Repair. WA8413314.

Update Visual Media Technologies Program Graphics I to Include New Computer Graphics and Computer Typesetting Technologies. WA8413315.

Vocational-Technical Information Program. TN8413213.

Audiovisual-Instruction

Audiovisual Materials for the Disadvantaged (Continuation of DUV 3-1E31). FL8413303.

Introduction into Use of Oscilloscope. OR8413306.

Auto-Body-Repairers

A Shop Management System for Auto Body Programs. MO8413104.

Auto and Electrical Trades Instructional Materials Development. NJ8413307.

Basic Auto Body Construction. OK8413306.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair. MA8413315.

Introduction to Auto Body. OK8413305.

Auto-Mechanics

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs. CO8413103.

Auto and Electrical Trades Instructional Materials Development. NJ8413307.

Automotive Education and Certification Program. KY8413229.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics. MA8413311.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics MA8413307.

Open-entry/Open-exit Automotive Mechanics Program. AR8413104.

Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive. WA8413305.

Automation

Standardized Procedures for Follow-Up Assessment. IL8413124.

Bandura (Albert)

Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory. PA8413119.

Basic-Skills

Academic/Vocational Project: Fairdale High School.
KY8413220.

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair.
KS8413205.

Defining Math and Science Competencies in Vocational Programs.
WA8413335.

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
KS8413203.

Project VOICE (Vocational Interpretation and Curriculum Enrichment) (Continuation).
TN8413206.

Research and Experimentation in Applied Learning.
NJ8413107.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Shawnee-Detrick Academic/Vocational Project.
KY8413230.

The Fourth Basic: Computer Skills.
KY8413204.

Vocational Mathematics in Trade and Industrial Education.
SC8413304.

Beginning-Teachers

Training and Implementation of Computer-managed, Competency-based New Teacher Institution.
GA8413214.

Behavioral-Objectives

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.
CO8413103.

Cosmetology—Vocational Education Consortium of States (V-TECS) Guide.
SC8413302.

Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.
TX8413312.

Health Occupations Education I (Revision).
SC8413310.

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413303.

Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413301.

Teacher Training, Curriculum, and Student Learning Objectives (SLOs) Development.
WA8413303.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.
PA8413302.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia.
VA8413104.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician.
PA8413309.

Bibliographies

Curriculum—Forest Products Computer Bibliography.
OR8413308.

Postsecondary Electromechanical Technology.
TX8413311.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Bilingual-Education

Educational Bilingual Industrial Drafting.
TX8413298.

Bilingual-Instructional-Materials

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Biomedical-Equipment

Biomedical Equipment Technician Demonstration Program (Madisonville).
KY8413224.

Biotechnology

Development of a Competency-based Instruction Curriculum for Biotechnology.
IL8413110.

Brochures

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Bucking

Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Budgets

Personal Finances for Adult Students.
KY8413203.

Building-Trades

Competency Development for Industrial WVTS Construction Technology (Grades 5-8).
WV8413308.

Residential Carpentry (revised 1985).
OK8413309.

Business

The Role of Vocational Education in Productivity—Phase I.
MO8413121.

Business-Administration

A Shop Management System for Auto Body Programs.
MO8413104.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Improving the Vocational Curriculum: Basic Business Skills for Vocational Students.
WA8413319.

Business-Education

An Evaluation of Business Teacher Education in Connecticut.
CT8413104.

Articulation Research of Business and Office Education.
MT8413101.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.

Competency-based Instruction for the Modern Office/Word Processing Technology.
MO8413105.

Connecticut Assessment of Educational Progress: Business and Office Education.
CT8413105.

Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103).
AR8413102.

Individualized Instructional Assistance for Disadvantaged Students.
LA8413202.

Intensive Business Program.
CT8413204.

Kansas Information/Word Processing Curriculum Guide Update.
KS8413302.

Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413126.

Prevocational Business and Office Competency-based Education Curriculum Revision.
WV8413311.

Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide.
IL8413306.

The Fourth Basic: Computer Skills.
KY8413204.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.
WV8413305.

Business-Education-Teachers

An Evaluation of Business Teacher Education in Connecticut.
CT8413104.

Computer Operator—Sequenced Catalog.
SC8413312.

Data Entry Operators—Sequenced Catalog.
SC8413311.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103).
AR8413102.

Business Law
Ways of Law. SC8413316.

Business-Skills
Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office. WV8413305.

Cabinetmaking
Training Curriculum for Millmen and Cabinetmakers. OR8413305.
Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305). OR8413311.

Career-Awareness
Articulation Project in Engineering Technology Career Awareness. TN8413210.
Career Awareness Program. LA8413204.
Project: MOD Squad (Dropout Prevention). KY8413213.
Reducing Sex Bias in the Career Education of Students in Grades 3-6. WY8413305.
Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education. TX8413106.

Career-Choice
Allied Health Occupations 2—Curriculum Development Project. CT8413301.
Promotion of Equity in Vocational Education. WY8413306.
Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory. PA8413119.
Vocational Education—It's Worth a Second Look. WY8413309.
Vocational-Technical Information Program. TN8413213.

Career-Counseling
Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.
Jobs for Bay State Graduates (Continuation of MA8313210). MA8413203.
Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.
Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.
Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.
Vocational Support Services Project. TN8413201.

Career-Development
Dropout Prevention in Hart County. KY8413218.
Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory. PA8413119.

Career-Education
Broad-based Applied Technology Program for Secondary Schools. KS8413202.

Career-Exploration
Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation). TN8413207.
Career Exploration for Women in Nontraditional Roles. WY8413303.
Career Exploration Software: Developing Practical Arts Experiences. KY8413207.
Curriculum Development: Industrial Arts. TX8413306.
Dropout Prevention in Hart County. KY8413218.
Dropout Prevention Program in Russell County. KY8413217.
Vocational Education—It's Worth a Second Look. WY8413309.

Career-Guidance
Assessment of the Impact of the Bureau of Vocational Education's Guidance Program. PA8413117.
Career Exploration Software: Developing Practical Arts Experiences. KY8413207.
Identification and Evaluation of Assessment Tools Used to Coursel Students. CO8413202.
Microcomputers in Secondary Guidance and Counseling. GA8413205.
Microcomputers in Secondary Guidance and Counseling. GA8413203.
Microcomputers in Secondary Guidance and Counseling. GA8413206.
Microcomputers in Secondary Guidance and Counseling. GA8413204.
Microcomputers in Secondary Guidance and Counseling. GA8413201.
Microcomputers in Secondary Guidance and Counseling. GA8413208.
Microcomputers in Secondary Guidance and Counseling. GA8413210.
Microcomputers in Secondary Guidance and Counseling. GA8413209.
Microcomputers in Secondary Guidance and Counseling. GA8413207.
Microcomputers in Secondary Guidance and Counseling. GA8413202.
Using Handicapped Workers as Career Role Models in Career Development. NJ8413206.
Vocational Career Training Center. NJ8413202.
Vocational Information for Career Guidance. WA8413101.

Career-Planning
Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula. KS8413204.
Microcomputers in Secondary Guidance and Counseling. GA8413205.
Microcomputers in Secondary Guidance and Counseling. GA8413204.
Microcomputers in Secondary Guidance and Counseling. GA8413210.
Microcomputers in Secondary Guidance and Counseling. GA8413206.
Microcomputers in Secondary Guidance and Counseling. GA8413201.
Microcomputers in Secondary Guidance and Counseling. GA8413209.
Microcomputers in Secondary Guidance and Counseling. GA8413203.
Microcomputers in Secondary Guidance and Counseling. GA8413207.
Microcomputers in Secondary Guidance and Counseling. GA8413208.
Microcomputers in Secondary Guidance and Counseling. GA8413202.
Vocational Information Center Project. IL8413113.

Careers
'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual. VA8413302.

Carpentry
Competency-based Vocational Education (CBVE) Curriculum—Carpentry. MA8413305.
Fundamentals of Carpentry. OK8413302.
Residential Carpentry (revised 1985). OK8413309.

Catalogs
Cattle Rancher—Sequenced Catalog. SC8413315.
Computer Operator—Sequenced Catalog. SC8413312.
Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project. FL8413301.
Data Entry Operators—Sequenced Catalog. SC8413311.
Develop and Implement Performance-based Industrial Training (Training For Profit). IN8413302.
Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum. MO8413305.
Maryland Vocational Curriculum Research and Development Center (Continuation). MD8413301.
Microcomputer Program Catalogs for Agriculture/Natural Resources. CA8413302.

Nebraska Vocational Curriculum Resource Center Catalog.
NE8413302.

Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Swine Farmer—Sequence Tasks.
SC8413314.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Vocational Information for Career Guidance.
WA8413101.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.
PA8413302.

Cattle

Cattle Rancher—Sequenced Catalog.
SC8413315.

Cattle Ranchers

Cattle Rancher—Sequenced Catalog.
SC8413315.

Certification

Automotive Education and Certification Program.
KY8413229.

Intensive Business Program.
CT8413204.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).
AR8413203.

Change

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.
IL8413115.

Change-Agents

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.
IL8413115.

Change-Strategies

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.
IL8413115.

Charts

Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Vocational Program Mapping and Follow-up Evaluation.
FL8413311.

Check-Lists

Competency-based Education Curriculum Development for Homemaking Materials (Continuation of WV8313302).
WV8413312.

Competency Development for Industrial Arts Transportation Technology (Grades 5-8).
WV8413309.

Competency Development for Industrial WVTS Construction Technology (Grades 5-8).
WV8413308.

Competency Development of a Hospitality Curriculum.
WV8413315.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413307.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413311.

Developing a Competency-based Component for the Connecticut Vocational Agriculture Curriculum.
CT8413304.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308).
WV8413313.

Instructional Improvement.
PA8413306.

Microcomputer Applications: An Impact for Local Vocational Programs.
IL8413107.

Training Curriculum for Millmen and Cabinetmakers.
OR8413305.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Chemical-Analysis

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System.
WA8413326.

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Child-Care-Occupations

A Computerized Instructional Program for the Child Care Industry.
TX8413210.

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.
CO8413103.

Child Development Program.
NM8413201.

Competency-based Education Curriculum Revision/Upgrading.
WV8413314.

Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services.
WY8413307.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Child-Caregivers

A Model Competency-based Vocational Education Curriculum (CBVE) for Child Care Assistant.
MA8413304.

Child Development Program.
NM8413201.

Child-Development

Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services.
WY8413307.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Civil-Rights

California Vocational Education Program for Compliance with the Office for Civil Rights Guidelines for Eliminating Discrimination and Denial of Services Based on Race, Color, National Origin, Sex, or Handicap.
CA8413103.

Class-Activities

Child Development Program.
NM8413201.

Updating of the Curricula for Industrial Refrigeration Course.
WA8413509.

Classification

A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel.
FL8413108.

Research to Develop a Curriculum Continuum of Prevocational Skills.
TX8413110.

Classroom-Techniques

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Clearinghouses

Curriculum Publications Clearinghouse.
IL8413305.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.

Clerical-Occupations

Incorporating Microcomputers into Secretarial anc Clerical Vocational Programs.
MO8413107.

Clinical-Teaching-Health-Professions

Allied Health Occupations 2—Curriculum Development Project.
CT8413301.

Curriculum Development: Postsecondary Emergency Medical Technology Paramedic.
TX8413304.

Clothing

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Cluster Concept Program

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Cognitive-Processes

Research to Develop a Curriculum Continuum of Prevocational Skills.
TX8413110.

College-Presidents

Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal.
NC8413107.

College-School-Cooperation
- Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County. OR8413102.

College-Seniors
- Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.

Communication-Skills
- Career Speech Development. NJ8413201.
- Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202). AR8413202.

Communication Technology
- Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308). WV8413313.

Communication-Thought-Transfer
- Industrial Arts Communications Curriculum Guide Workshop. NM8413302.

Communications
- An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.
- Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202). AR8413202.
- Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology). VA8413311.
- Fiber Optics Communications Technology. TX8413107.
- Five County Regional Vocational System: Regional Communications Model. IL8413121.

Community
- Getting to the Public for a Hearing. MO8413102.

Community-Benefits
- Developing a Center for Small Business—A Model for Economic Development. CO8413203.

Community-Colleges
- Chicago Coalition—Education/Training Employment. IL8413117.
- Computers in the Small-Scale Construction Trades Industry Applications and Education. CA8413301.
- Developing a Center for Small Business—A Model for Economic Development. CO8413203.
- Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal. NC8413107.
- Development and Validation of a Comprehensive Cost Allocation Model for Occupational Programs in the North Carolina Community College System. NC8413106.
- Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring. NC8413102.
- Development of a Model for Recruiting the New Community College Student. NC8413103.
- Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System. NC8413101.
- Evaluation Review. CA8413106.
- Follow-up Evaluation Project. FL8413112.
- Improving Data Quality and Vocational Education Data System (VEDS) Reporting. CA8413102.
- New Local Program Curriculum Development. MI8413301.
- Quality Circles Training for Community College Educators and Students and the Businesses They Serve. NC8413105.

Community-Colleges-Competency-Based-Education
- Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105). VA8413103.

Community-Health-Services
- Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I. WA8413306.

Community-Involvement
- Horticulture Training. NJ8413210.
- Youth Service Job Skills Training and Employment. TN8413204.

Community-Programs
- Project Career Reach. NJ8413204.
- Vocational Information Center Project. IL8413113.

Community-Resources
- Project Career Reach. NJ8413204.
- Study of Work: Phase 2 (Continuation of NJ8313209). NJ8413207.

Community-Surveys
- Getting to the Public for a Hearing. MO8413102.

Comparative-Analysis
- Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101). LA8413104.
- Feasibility of Utilizing Placement Rate Concept in Vocational Education. CA8413105.
- Follow-up Evaluation Project. FL8413112.
- Identification of Electronics Competencies in Vocational Programs. WA8413110.
- Research and Experimentation in Applied Learning. NJ8413107.
- The Effectiveness of Competency Profiles. OK8413101.
- Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations. HI8413101.

Competence
- An Identification of Science Competencies Taught in Secondary Vocational Agriculture. NC8413115.
- Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs. CO8413103.
- Competency-based Education Project. FL8413305.
- Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205). AR8413201.
- Competency Development for Industrial Arts Manufacturing Technology (Grades 5-8). WV8413310.
- Competency Development for Industrial Arts Transportation Technology (Grades 5-8). WV8413309.
- Competency Development for Industrial WVTS Construction Technology (Grades 5-8). WV8413308.
- Competency Development of a Hospitality Curriculum. WV8413315.
- Computer Assisted Instruction in Feeds and Feeding. MT8413305.
- Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project. FL8413301.
- Coordination of Vocational and Academic Curricula. OH8413102.
- Curriculum Development: Vocational Industrial Education Cooperative Training. TX8413308.
- Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged. TX8413312.
- Curriculum Development—Vocational Office Education. TX8413303.
- Defining Math and Science Competencies in Vocational Programs. WA8413335.
- Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates. WY8413101.
- Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval. FL8413106.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308).
WV8413313.

Follow-up and Evaluation Projects.
FL8413312.

Follow-up Evaluation Project.
FL8413112.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar.
IL8413127.

Instructional Improvement.
PA8413306.

Math Competencies Taught in Secondary Vocational Education.
NC8413110.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Science Competencies of Health Occupations Courses.
NC8413114.

Science Competencies Taught in Secondary Vocational Education.
NC8413111.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.
WA8413111.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).
AR8413203.

The Effectiveness of Competency Profiles.
OK8413101.

Training and Implementation of Computer-managed, Competency-based New Teacher Institution.
GA8413214.

Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Vocational Individual Proficiencies (VIP).
NJ8413104.

Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory.
TX8413301.

Vocational Program Mapping and Follow-up Evaluation.
FL8413311.

Competency-Based-Education

A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management.
MA8413302.

A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices.
MA8413303.

A Model Competency-based Vocational Education Curriculum (CBVE) for Child Care Assistant.
MA8413304.

A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting.
MO8413101.

Academic/Vocational Project: Fairdale High School.
KY8413220.

Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.
MO8413117.

Competency-based Curriculum Development.
PA8413305.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.

Competency-based Education Curriculum Development for Homemaking Materials (Continuation of WV8313302).
WV8413312.

Competency-based Education Curriculum Revision/Upgrading.
WV8413314.

Competency-based Education Project.
FL8413305.

Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205).
AR8413201.

Competency-based Instruction for the Modern Office/Word Processing Technology.
MO8413105.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development and Implementation—Five-year Plan.
PA8413310.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Competency-based Welding Processes Videotapes.
MO8413116.

Competency Development of a Hospitality Curriculum.
WV8413315.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413307.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413311.

Comprehensive Planning for Competency-based Vocational Education (CBVE) Implementation—Teacher Education and School Programs.
FL8413116.

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305).
PA8413314.

Continuation of a Program to Develop Competency-based Vocational Education in the Two Area Vocational-Technical Schools of Chester County.
PA8413304.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Curriculum Development—Postsecondary Office Occupations Competency Tests.
TX8413302.

Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs.
WA8413302.

Curriculum Development: Vocational Industrial Education Cooperative Training.
TX8413308.

Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.
TX8413312.

Curriculum Materials: Health Occupations.
TX8413309.

Design of a Health Occupations Magnet Program in the Rio Grande Valley.
TX8413105.

Develop and Implement Performance-based Industrial Training (Training For Profit).
IN8413302.

Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.
WA8413314.

Developing a Competency-based Component for the Connecticut Vocational Agriculture Curriculum.
CT8413304.

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202).
AR8413202.

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation).
PA8413315.

Development of a Competency-based Instruction Curriculum for Biotechnology.
IL8413110.

Development of a Competency-based Vocational Education Individualized Education Program (IEP) Model.
PA8413316.

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308).
WV8413313.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture.
PA8413308.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).
PA8413318.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology.
VA8413304.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry.
VA8413303.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing.
VA8413312.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology).
VA8413311.

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities).
TX8413109.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103).
AR8413102.

Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development.
MO8413304.

Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.
PA8413317.

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.
VA8413308.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Implementing Competency-based Vocational Education (CBVE).
PA8413307.

Industrial Cooperative Training Curriculum and Related Activities.
AR8413103.

Kansas Competency-based Vocational Education Project—FY 1984.
KS8413303.

Math Competencies Taught in Secondary Vocational Education.
NC8413110.

Membership Requirements for IDECC (Continuation).
FL8413308.

Open-entry/Open-exit Automotive Mechanics Program.
AR8413104.

Open-entry/Open-exit Drafting Technology Program.
AR8413105.

Oregon Partnership Electronics Program.
OR8413302.

Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs.
FL8413111.

Prevocational Business and Office Competency-based Education Curriculum Revision.
WV8413311.

Produce and Disseminate a Competency-based Curriculum for the Occupation of Geriatric Nursing Assistant.
AZ8413301.

Salesmanship.
SC8413306.

Science Competencies of Health Occupations Courses.
NC8413114.

Science Competencies Taught in Secondary Vocational Education.
NC8413111.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103).
VA8413102.

Supermarket Operations.
SC8413307.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Technical Assistance and Staff Support Resources for Competency-based Vocational Education.
MA8413301.

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE).
MA8413316.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).
AR8413203.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania.
PA8413104.

Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.
WA8413317.

Update of the Secondary Vocational Office Education Data Processing Curriculum.
TX8413108.

Update Visual Media Technologies Program Graphics 1 to Include New Computer Graphics and Computer Typesetting Technologies.
WA8413315.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).
VA8413314.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia.
VA8413104.

Work Analysis Specialist.
IN8413303.

Competition

Vocational Education—Georgia Outstanding Students.
GA8413213.

Compliance-Legal

California Vocational Education Program for Compliance with the Office for Civil Rights Guidelines for Eliminating Discrimination and Denial of Services Based on Race, Color, National Origin, Sex, or Handicap.
CA8413103.

Vocational Education Reporting System (VERS) Management Project.
VA8413109.

Computational Skills

Vocational Mathematics in Trade and Industrial Education.
SC8413304.

Computer Aided Design

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Computer-Aided-Instruction

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.
GA8413216.

Computer Aided Manufacturing
An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.

Computer Assisted Design
Computer-aided Drafting (CAD) Postsecondary Demonstration Program (West Kentucky). KY8413227.
Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc. WA8413318.
Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design). WA8413325.

Computer Assisted Drafting
Competency-based Computer-aided Drafting Curriculum for Vocational Drafting. MO8413117.
Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes. IL8413103.
Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design). WA8413325.

Computer-Assisted-Instruction
A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology. TX8413207.
A Multidisciplinary Research Team Approach to Computer-aided Drafting (CAD) System Selection. MO8413124.
An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.
Computer Applications for Special Needs Students. NJ8413108.
Computer Assisted Instruction in Existing Vocational Programs. KY8413211.
Computer Assisted Instruction in Feeds and Feeding. MT8413305.
Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education. IL8413120.
Computers in the Small-Scale Construction Trades Industry Applications and Education. CA8413301.
Cost Effectiveness of Computer Assisted Instruction. AZ8413102.
Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events. VA8413306.
Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc. WA8413318.
Incorporating Microcomputers into Secretarial and Clerical Vocational Programs. MO8413107.
Introduction into Use of Oscilloscope. OR8413306.
Microcomputer-based Instruction for Digital Electronics. MO8413113.
Microcomputers in Agricultural Education. VA8413107.
Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2. IL8413111.
Oregon Partnership Electronics Program. OR8413302.
Programed Computer-assisted Basic Electronics. WA8413331.
Scott County Computer Assisted Vocational Education Program. TN8413203.
Task-Oriented, Computer-assisted Instructional Model for Vocational Education. MT8413203.
The Fourth Basic: Computer Skills. KY8413204.
Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture. WV8413307.
Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office. WV8413305.
Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking. WV8413304.
Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing. WV8413301.
Using Microcomputers in Vocational Education To Teach Skills Needed in Health. WV8413303.
Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts. WV8413306.
Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial. WV8413302.
Using the Microcomputer to Teach Keyboarding Skills. VA8413108.

Computer Assisted Manufacturing
Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes. IL8413103.
Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc. WA8413318.

Computer-Assisted-Technology
A Computerized Simulation Program for State Board Examinations in Cosmetology. TX8413203.

Computer-Graphics
An Application of Computer Graphics Curriculum to Selected Vocational-Technical Programs. TX8413201.
An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.
Computer Graphics. NJ8413303.
Update Visual Media Technologies Program Graphics I to Include New Computer Graphics and Computer Typesetting Technologies. WA8413315.

Computer-Literacy
Computer Graphics. NJ8413303.
Computer Training for the Adult Community. KY8413206.
Experimental Program in Computer Literacy: Adair County. KY8413210.
Health Technologies Microcomputer Search and Orientation Project—Phase 2. WA8413308.
Integration of Computer-related Instruction in Texas Vocational Agriculture Programs. TX8413103.
Methodology for Computer Skills Improvement in Vocational Secondary Programs. OR8413201.
Project Pacer (Peer-Assisted Computer Exposure and Remediation). NJ8413205.
The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers. AZ8413202.
Vocational Career Training Center. NJ8413202.

Computer-Managed-Instruction
Automated Management and Instructional Support for Special Needs Students. LA8413201.
Computer Workshop for Diversified Cooperative Training (DCT) Teachers. GA8413212.

Computer Operator
Computer Operator—Sequenced Catalog. SC8413312.

Computer-Oriented-Programs
A Computerized Instructional Program for the Child Care Industry. TX8413210.
A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology. TX8413207.
An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.
An Analysis of Vocational Teachers' Understandings and Attitudes toward Using Microcomputers in Vocational Education. PA8413113.
Automated Management and Instructional Support for Special Needs Students. LA8413201.
Business and Office Curriculum Update. WA8413328.

Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.

Competency-based Education Project.
FL8413305.

Computer Applications for Special Needs Students.
NJ8413108.

Computer Workshop for Diversified Cooperative Training (DCT) Teachers.
GA8413212.

Computerized Numerical Control Turning Technician.
OK8413304.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System.
LA8413102.

Development of an Instructional Unit for the New Computer-compatible Record Book.
PA8413111.

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System.
WA8413326.

Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes.
WA8413323.

Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care.
WA8413322.

Getting to the Public for a Hearing.
MO8413102.

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation).
NM8413101.

MICRO-VERS Version 2.0, Update, Research and Technical Assistance.
IL8413108.

Microcomputer Applications: An Impact for Local Vocational Programs.
IL8413107.

Microcomputerized Farm Records Management.
WA8413307.

Microcomputers in Agricultural Education.
VA8413107.

Microcomputers in Secondary Guidance and Counseling.
GA8413209.

Microcomputers in Secondary Guidance and Counseling.
GA8413207.

Microcomputers in Secondary Guidance and Counseling.
GA8413206.

Microcomputers in Secondary Guidance and Counseling.
GA8413204.

Microcomputers in Secondary Guidance and Counseling.
GA8413201.

Microcomputers in Secondary Guidance and Counseling.
GA8413205.

Microcomputers in Secondary Guidance and Counseling.
GA8413208.

Microcomputers in Secondary Guidance and Counseling.
GA8413202.

Microcomputers in Secondary Guidance and Counseling.
GA8413203.

Microcomputers in Secondary Guidance and Counseling.
GA8413210.

Model Management Process for a Statewide Criterion-Referenced Testing Program.
GA8413215.

Updating Vocational Agricultural Curriculum Resource Units.
MT8413307.

Using the Microcomputer to Teach Keyboarding Skills.
VA8413108.

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.
CA8413101.

Vocational Information Center Project.
IL8413113.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Ward Secretary Simulation Software Development.
WA8413316.

Computer-Orienter-Programs

Program Development and Dissemination.
MI8413302.

Computer-Programs

Business and Office Curriculum Update.
WA8413328.

Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.

Computer Assisted Instruction in Existing Vocational Programs.
KY8413211.

Computer Assisted Instruction in Feeds and Feeding.
MT8413305.

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education.
IL8413120.

Computer Software for Forestry Technology Curricula.
WA8413324.

Continuation of Job Related Physical Capacity (JRPC).
FL8413201.

Curriculum—Forest Products Computer Bibliography.
OR8413308.

Development of Equipment Simulations for Community College Vocational Curricula.
NC8413104.

Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care.
WA8413322.

Exemplary Software.
TN8413211.

Experimental Program in Computer Literacy: Adair County.
KY8413210.

MICRO-VERS Version 2.0, Update, Research and Technical Assistance.
IL8413108.

Microcomputer Program Catalogs for Agriculture/Natural Resources.
CA8413302.

Microcomputerized Farm Records Management.
WA8413307.

Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Programed Computer-assisted Basic Electronics.
WA8413331.

Scott County Computer Assisted Vocational Education Program.
TN8413203.

The Development of a Computer-compatible Supervised Occupational Experience (SOE) Record System for Vocational Agriculture.
PA8413303.

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture.
WV8413307.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.
WV8413305.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.

Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing.
WV8413301.

Using Microcomputers in Vocational Education To Teach Skills Needed in Health.
WV8413303.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts.
WV8413306.

Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial.
WV8413302.

Ward Secretary Simulation Software Development.
WA8413316.

Computer Repair

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair.
KS8413205.

Computer-Science

Project Pacer (Peer-Assisted Computer Exposure and Remediation).
NJ8413205.

Computer-Simulation

Ward Secretary Simulation Software Development.
WA8413316.

Computer-Software

A Computerized Instructional Program for the Child Care Industry.
TX8413210.

A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

An Application of Computer Graphics Curriculum to Selected Vocational-Technical Programs.
TX8413201.

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Computer Workshop for Diversified Cooperative Training (DCT) Teachers.
GA8413212.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Development, Adaptation, and Modification of Curriculum Materials for Limited English-speaking Students.
PA8413312.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System.
LA8413102.

Equipment Inventory for Vocational Programs.
KS8413206.

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.
GA8413216.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.
TX8413103.

Microcomputers in Secondary Guidance and Counseling.
GA8413201.

Microcomputers in Secondary Guidance and Counseling.
GA8413206.

Microcomputers in Secondary Guidance and Counseling.
GA8413208.

Microcomputers in Secondary Guidance and Counseling.
GA8413210.

Microcomputers in Secondary Guidance and Counseling.
GA8413207.

Microcomputers in Secondary Guidance and Counseling.
GA8413209.

Microcomputers in Secondary Guidance and Counseling.
GA8413202.

Microcomputers in Secondary Guidance and Counseling.
GA8413203.

Microcomputers in Secondary Guidance and Counseling.
GA8413205.

Microcomputers in Secondary Guidance and Counseling.
GA8413204.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Using Personal Computers to Promote Economic Development.
MT8413103.

Computer Typesetting

Update Visual Media Technologies Program Graphics I to Include New Computer Graphics and Computer Typesetting Technologies.
WA8413315.

Computers

Computer-aided Drafting (CAD) Postsecondary Demonstration Program (West Kentucky).
KY8413227.

Computer Assisted Instruction in Existing Vocational Programs.
KY8413211.

Computer Operator—Sequenced Catalog.
SC8413312.

Computer Training for the Adult Community.
KY8413206.

Development of an Instructional Unit for the New Computer-compatible Record Book.
PA841311.

Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

Microcomputers in Agricultural Education.
VA8413107.

Model Management Process for a Statewide Criterion-Referenced Testing Program.
GA8413215.

Personal Finances for Adult Students.
KY8413203.

Preparation of Basic Programing Language Editors.
WA8413313.

Preparation of Hewlett Packard-3000 Programing Language Editors.
WA8413312.

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology.
MO8413103.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers.
AZ8413202.

Conference-Proceedings

Vocational Studies Center—Research Component (Continuation of WI8313104).
WY8413102.

Conferences

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Conservation-Education

Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
TN8413207.

Conservation-Environment

Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest.
WA8413311.

Consortia

Comprehensive Region I System for Planning and Coordinating Vocational Education.
IN8413202.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Development of Student Achievement Measures for Vocational Education.
NJ8413103.

Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).
PA8413320.

Job Training Consortium Program—Industry/Education Coordinator.
PA8413205.

Membership Requirements for IDECC (Continuation).
FL8413308.

Middlesex Consortium: Vocational Education.
CT8413202.

Principles of Technology.
IL8413128.

Survey of Collaborative Efforts between Schools/Business/Industry/Labor.
OR8413101.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Vocational Assessment Consortium: Bluegrass Area.
KY8413214.

Vocational Assessment Consortium: Wilderness Trail.
KY8413215.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia.
VA8413104.

Construction-Industry

Competency Development for Industrial WVTS Construction Technology (Grades 5-8).
WV8413308.

Computers in the Small-Scale Construction Trades Industry Applications and Education.
CA8413301.

Construction-Management

Computers in the Small-Scale Construction Trades Industry Applications and Education.
CA8413301.

Construction-Process

Competency Development for Industrial WVTS Construction Technology (Grades 5-8).
WV8413308.

Consultants

Provisions for Consultative Research Associate for Vocational Education.
FL8413104.

Provisions for Research Associate (Continuation).
FL8413105.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Vocational Education Consultants.
NM8413303.

Consumer-Economics

Family Economics—Modules.
SC8413308.

Personal Finances for Adult Students.
KY8413203.

Consumer-Education

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Personal Finances for Adult Students.
KY8413203.

Statewide Evaluation of Vocational Education's Consumer and Homemaking Programs.
PA8413109.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.

Consumer-Evaluation

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Consumers

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Content-Analysis

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.

Trades and Industry Technical Skill Examinations Assessment and Revision.
SC8413103.

Contracts

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).
VA8413103.

Cooperation

Survey of Collaborative Efforts between Schools/Business/Industry/Labor.
OR8413101.

Cooperative-Education

Curriculum Development: Vocational Industrial Education Cooperative Training.
TX8413308.

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School.
WY8413304.

Industrial Cooperative Training Curriculum and Related Activities.
AR8413103.

Statewide Cooperative Education Videotape.
OR8413301.

Vocational Support Services Project.
TN8413201.

Cooperative Office Education

Coordination of Vocational and Academic Curricula.
OH8413102.

Cooperative-Programs

Business and Industry-based Instruction Developed by Community Colleges in Illinois.
IL8413105.

Business Office Skills Development.
CT8413203.

Career Awareness Program.
LA8413204.

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.

High Technology Internship.
TX8413205.

Intensive Business Program.
CT8413204.

Working Together: Employers and Educators.
CT8413205.

Coordination

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).
VA8413103.

Comprehensive Region 1 System for Planning and Coordinating Vocational Education.
IN8413202.

Coordination of Special Evaluation Activities.
FL8413117.

Evaluation Review.
CA8413106.

Industry/Education Coordinator.
PA8413203.

Industry/Education Coordinator.
PA8413202.

Provisions for Consultative Research Associate for Vocational Education.
FL8413104.

Regional Planning Study for Vocational Education in Region 12.
IN8413203.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System.
PA8413319.

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE).
MA8413316.

Coordinators

Colorado Marketing and Distributive Education Improvement Plan.
CO8413107.

Computer Workshop for Diversified Cooperative Training (DCT) Teachers.
GA8413212.

Industry/Education Coordinator.
PA8413202.

Industry/Education Coordinator.
PA8413203.

Industry/Education Coordinator.
PA8413201.

Regional Planning Study for Vocational Education in Region 12.
IN8413203.

Study of Work: Phase 2 (Continuation of NJ8313209).
NJ8413207.

Coping

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Core-Curriculum

Allied Health Occupations 2—Curriculum Development Project.
CT8413301.

Basic Auto Body Construction.
OK8413306.

Computerized Numerical Control Turning Technician.
OK8413304.

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair.
KS8413205.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Fundamentals of Carpentry.
OK8413302.

Health Services Careers (revised 1985).
OK8413310.

Illinois Core Curriculum in Agriculture Project.
IL8413301.

Introduction to Auto Body.
OK8413305.

Marketing.
OK8413307.

Marriage and Family Life.
OK8413303.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Residential Carpentry (revised 1985).
OK8413309.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103).
VA8413102.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers.
AZ8413202.

Vocational Agriculture 1 (revised 1984).
OK8413301.

Vocational Agriculture 2 (revised 1985).
OK8413308.

Correlation

Follow-up and Evaluation Project.
FL8413310.

Cosmetology

A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.

Cosmetology—Vocational Education Consortium of States (V-TECS) Guide.
SC8413302.

Curriculum Development: Postsecondary Cosmetology Instructor Program Materials.
TX8413307.

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.
GA8413216.

Cost-Effectiveness

Cost Effectiveness of Computer Assisted Instruction.
AZ8413102.

Development and Validation of a Comprehensive Cost Allocation Model for Occupational Programs in the North Carolina Community College System.
NC8413106.

Development of a Model for Recruiting the New Community College Student.
NC8413103.

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.

Project TRADE: Teacher Retraining and Directed Exchange.
OH8413101.

Third Party Evaluation of Florida Education Information Service (FEIS).
FL8413119.

Counseling-Effectiveness

Special Services for Handicapped Students.
NJ8413102.

Counseling-Services

Articulation between Secondary and Postsecondary Vocational-Technical Education.
TN8413212.

Counseling-Techniques

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System.
NC8413101.

Counselor-Attitudes

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

Counselor-Role

Development of a Model Role for the Area Vocational-Technical School Counselor.
MO8413109.

Course-Content

Competency-based Vocational Education (CBVE) Curriculum Development and Implementation—Five-year Plan.
PA8413310.

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach.
PA8413102.

Follow-up and Evaluation Project.
FL8413310.

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Course-Descriptions

Competency-based Curriculum Development.
PA8413305.

Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205).
AR8413201.

Computer Graphics.
NJ8413303.

Curriculum Development—Vocational Office Education.
TX8413303.

Food Processing Course Outline and Resource Manual.
LA8413301.

High Technology Curriculum Development and Dissemination.
GA8413303.

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Introduction to Robotics Curriculum.
MO8413115.

Project Civil Rights.
WY8413310.

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology.
MO8413103.

Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.
WA8413317.

Course-Objectives

Home and Family Life Education Program Analysis.
WA8413106.

Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).
WA8413325.

Course-Organization

Vocational Career Training Center.
NJ8413202.

Course-Outlines

Staff Development Curriculum for High Technology Instructors.
GA8413306.

Courses

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach.
PA8413102.

Follow-up and Evaluation Project.
FL8413310.

Home and Family Life Education Program Analysis.
WA8413106.

Courseware

Word/Information Processing with Microcomputers in Business Education.
LA8413207.

Court-Reporters

Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes.
WA8413323.

Credit-Courses

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Credit-Finance

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Credits

Defining Math and Science Competencies in Vocational Programs.
WA8413335.

Criterion-Referenced-Tests

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval.
FL8413106.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103).
AR8413102.

Model Management Process for a Statewide Criterion-Referenced Testing Program.
GA8413215.

Cultural-Pluralism

Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I.
WA8413306.

Curriculum

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.

Curriculum Guide for First Year General Marketing Program in the Secondary School Level.
GA8413307.

Defining Math and Science Competencies in Vocational Programs.
WA8413335.

Developing a Model Vocational Agriculture Curriculum for High Schools in North Central Washington.
WA8413333.

Development and Implementation of Curriculum for Wage Earning Home Economics Programs.
MT8413309.

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials.
KS8413301.

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum.
MO8413305.

New Local Program Curriculum Development.
MI8413301.

Program Development and Dissemination.
MI8413302.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.
WA8413111.

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Telecommunications.
WA8413334.

Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).
OR8413311.

Understanding Robotics. NJ8413304.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302). WI8413301.

Curriculum-Development

Academic/Vocational Project: Fairdale High School. KY8413220.

Agricultural Curriculum Development. WI8413302.

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education. IL8413120.

Curriculum Development—Occupational Orientation. TX8413310.

Curriculum Development—Vocational Office Education. TX8413303.

Curriculum Guide for First Year General Marketing Program in the Secondary School Level. GA8413307.

Developing a Competency-based Component for the Connecticut Vocational Agriculture Curriculum. CT8413304.

Development and Validation of a Comprehensive Cost Allocation Model for Occupational Programs in the North Carolina Community College System. NC8413106.

Development of a Revised Curriculum Guide for the Secondary Electromechancial Cluster. GA8413304.

Development of an Instructional Unit for the New Computer-compatible Record Book. PA8413111.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103). AR8413102.

Exemplary Project for Training and Placement of Displaced Workers. AZ8413201.

Fiber Optics Communications Technology. TX8413107.

Follow-up and Evaluation Projects. FL8413312.

Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course. GA8413305.

Industrial Education Curriculum Development. MT8413310.

Instruction in Intravenous Therapy. MT8413311.

Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.

Shawnee-Detrick Academic/Vocational Project. KY8413230.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers. AZ8413202.

The Role of Vocational Education in Productivity—Phase 1. MO8413127.

Update of the Secondary Vocational Office Education Data Processing Curriculum. TX8413108.

Curriculum-Evaluation

A Study of Articulation in Missouri Vocational Technical Programs. MO8413122.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO). TX8413112.

Industry/Education Coordinator. PA8413201.

Marketing and Distributive Education Curriculum Guide Field Review. SC8413102.

Preparation of Basic Programing Language Editors. WA8413313.

Preparation of Hewlett Packard-3000 Programing Language Editors. WA8413312.

Review of the Vocational Cluster System. OR8413310.

Curriculum-Faculty-Development

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE). MA8413316.

Curriculum-Guides

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives. WA8413332.

Advanced Technical Drafting, Advanced Metals, Advanced Woodworking. LA8413303.

Agricultural Curriculum Development. WI8413302.

Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205). AR8413201.

Coordination of Vocational and Academic Curricula. OH8413102.

Cosmetology—Vocational Education Consortium of States (V-TECS) Guide. SC8413302.

Crops and Soils Curriculum Guide. WA8413330.

Curriculum Development in Agriculture, 1984. OR8413304.

Curriculum Development in Vocational Agriculture. CA8413305.

Curriculum Guide for First Year General Marketing Program in the Secondary School Level. GA8413307.

Curriculum Publications Clearinghouse. IL8413305.

Design of a Health Occupations Magnet Program in the Rio Grande Valley. TX8413105.

Development of a Revised Curriculum Guide for the Secondary Electromechancial Cluster. GA8413304.

Development of Statewide Competency-based Curriculum Guides and Administrative Materials in Business Education (Continuation of AR8313103). AR8413102

Food Processing Course Outline and Resource Manual. LA8413301.

Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course. GA8413305.

High School Industrial Arts Curriculum Guide. OR8413307.

High Technology Curriculum Development and Dissemination. GA8413303.

Industrial Education Curriculum Development. MT8413310.

Kansas Information/Word Processing Curriculum Guide Update. KS8413302.

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide. SC8413303.

Marketing and Distributive Education Curriculum Guide Field Review. SC8413102.

Marketing Curriculum Guides Dissemination 2. IL8413302.

Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide. SC8413301.

Program Development and Dissemination. MI8413302.

Revision and Development of Two Curriculum Guides for Vocational Agriculture. WA8413329.

Robotics in Industrial Arts. LA8413205.

Salesmanship. SC8413306.

The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools. TN8413202.

Vocational Program Mapping and Follow-up Evaluation. FL8413311.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia. VA8413104.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician. PA8413309.

Word/Information Processing with Microcomputers in Business Education. LA8413207.

Curriculum-Research

Math Competencies Taught in Secondary Vocational Education. NC8413110.

Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses. NC8413113.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses. NC8413112.

Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing. WA8413107.

Science Competencies Taught in Secondary Vocational Education.
NC8413111.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.
WA8413111.

Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Curriculum-Study-Centers

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105).
WI8413101.

Illinois Vocational Curriculum Center.
IL8413102.

Maryland Vocational Curriculum Research and Development Center (Continuation).
MD8413301.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).
VA8413314.

Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory.
TX8413301.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Currriculum-Development

The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools.
TN8413202.

Customized Job Training

First-Year Impact of Customized Job Training Program.
PA8413108.

Daily-Living-Skills

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Pivot A Lift: PAL.
KY8413209.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Data-Analysis

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan.
IL8413118.

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.

Career Aspirations of Disadvantaged Students (Continuation of FSU3-2D31).
FL8413202.

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring.
NC8413102.

Development of Student Achievement Measures for Vocational Education.
NJ8413103.

Information Distribution Plan.
SC8413101.

Job Training: Development and Evaluation of an Assessment Procedure.
TN8413205.

Occupational Education Programs at Community Colleges of the City University of New York (Continuation).
NY8413106.

Project Link.
CT8413101.

Data-Collection

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.

Continuation of Job Related Physical Capacity (JRPC).
FL8413201.

First-Year Impact of Customized Job Training Program.
PA8413108.

High School and Beyond Longitudinal Study—Augmentation.
IL8413113.

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Information Distribution Plan.
SC8413101.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation).
NM8413101.

Project Link.
CT8413101.

Vocational Education Reporting System (VERS) Management Project.
VA8413109.

Data Entry Operators

Data Entry Operators—Sequenced Catalog.
SC8413311.

Data-Evaluation

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Data-Processing

Competency-based Instruction for the Modern Office/Word Processing Technology.
MO8413105.

Computer Software for Forestry Technology Curricula.
WA8413324.

Program Guide for Data Processing Occupations.
FL8413306.

Telecommunications.
WA8413334.

Update of the Secondary Vocational Office Education Data Processing Curriculum.
TX8413108.

Ward Secretary Simulation Software Development.
WA8413316.

Word and Data Processing Postsecondary Demonstration Program (Harlan).
KY8413225.

Data-Processing-Occupations

Data Entry Operators—Sequenced Catalog.
SC8413311.

Program Guide for Data Processing Occupations.
FL8413306.

Databases

Equipment Inventory for Vocational Programs.
KS8413206.

Deafness

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Decision-Making

Information Distribution Plan.
SC8413101.

Promotion of Equity in Vocational Education.
WY8413306.

Vocational-Technical Information Program.
TN8413213.

Decision-Making-Skills

Project BASICS—Building Attitudes and Skills for Improved Career Success.
TX8413208.

Delinquency

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

Delivery-Systems

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

An Assessment of Vocational Education in Massachusetts.
MA8413102.

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.
MN8413102.

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105). WI8413101.

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317). PA8413313.

Curriculum Publications Clearinghouse. IL8413305.

Developing a Master Plan for Improving Competency-based Vocational Education. FL8413109.

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials. KS8413301.

Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development. MO8413304.

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum. MO8413305.

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County. OR8413102.

Innovative Vocational Education Delivery System. IL8413109.

Marketing Curriculum Guides Dissemination 2. IL8413302.

Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2. IL8413111.

Postsecondary/High Technology: Program and Vocational School Model Development. KY8413221.

Project Career Reach. NJ8413204.

Provisions for Consultative Research Associate for Vocational Education. FL8413104.

Review of the Vocational Cluster System. OR8413310.

The Role of Vocational Education in Productivity—Phase 1. MO8413121.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2. VA8413313.

Unity for a Quality Vocational Delivery System in the Metropolitan Nashville Community. TN8413208.

Vocational Information Center Project. IL8413113.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302). WI8413301.

Demography

The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs. MS8413101.

Demonstration-Programs

A Demonstration Model for Meeting the Needs of Displaced Workers. CO8413101.

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.

Catalog of Innovations (Continuation of FL8313102). FL8413118.

Showcase '84: Statewide Dissemination and Utilization for Postsecondary Occupational Education. NY8413104.

Successful Practices in Educational Settings for Working with Handicapped Students. FL8413115.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers. AZ8413202.

Demonstrations-Educational

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities). TX8413109.

Dental-Assistants

Curriculum Development of Learning Activity Packets (LAPs)—Dental Assisting Program. WA8413304.

Curriculum Materials: Health Occupations. TX8413309.

Curriculum Planning for Oral and Maxillofacial Surgery Assistant Program. MO8413112.

Dental-Health

Dental Hygiene Instructional Videotape Development. NJ8413308.

Dental-Hygienists

Dental Hygiene Instructional Videotape Development. NJ8413308.

Dental-Technicians

Allied Health Occupations 2—Curriculum Development Project. CT8413301.

Dentistry

Curriculum Planning for Oral and Maxillofacial Surgery Assistant Program. MO8413112.

Department-Heads

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders. VA8413301.

Depreciation

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture. MO8413125.

Developing a Curriculum

Development of a Competency-based Instruction Curriculum for Biotechnology. IL8413110.

Developmental-Programs

Expanding the Respiratory Therapy Curriculum. WA8413320.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education. NY8413101.

Research to Develop a Curriculum Continuum of Prevocational Skills. TX8413110.

Diagnostic-Teaching

Automated Management and Instructional Support for Special Needs Students. LA8413201.

Diagnostic-Tests

The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills. IL8413116.

Diagnostically Related Groups

Nurse Staffing Patterns and Implications for Training of Practical Nurses. OK8413103.

Diffusion-Communication

Promising Practices Diffusion. OR8413202.

Digital-Computers

Microcomputer-based Instruction for Digital Electronics. MO8413113.

Directories

Business and Industry-based Instruction Developed by Community Colleges in Illinois. IL8413105.

Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305). OR8413311.

Disabilities

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania. PA8413118.

Computer Applications for Special Needs Students. NJ8413108.

Concurrent Validity Research on Vocational Assessment of the Physically Handicapped. NJ8413106.

Development and Dissemination of Statewide Newsletter for Vocational Personnel Who Serve the Handicapped Students. PA8413311.

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture. PA8413308.

Horticulture Training. NJ8413210.

Regional Job Title for Classified Students. NJ8413203.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education. TX8413106.

Special Services for Handicapped Students. NJ8413102.

Successful Practices in Educational Settings for Working with Handicapped Students. FL8413115.

Using Handicapped Workers as Career Role Models in Career Development.
NJ8413206.
Vocational Assessment Center for the Handicapped.
KY8413219.
Vocational Assessment Consortium: Bluegrass Area.
KY8413214.
Vocational Assessment Consortium: Wilderness Trail.
KY8413215.

Disabilties
Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.
TX8413204.

Disadvantaged
An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners.
PA8413112.
Assessment of the Impact of the Bureau of Vocational Education's Program for Disadvantaged Populations in Pennsylvania.
PA8413107.
Computer Applications for Special Needs Students.
NJ8413108.
'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317).
PA8413313.
Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.
TX8413204.
Individualized Instructional Assistance for Disadvantaged Students.
LA8413202.
Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.
Project Career Reach.
NJ8413204.
Project Pacer (Peer-Assisted Computer Exposure and Remediation).
NJ8413205.
Study of Work: Phase 2 (Continuation of NJ8313209).
NJ8413207.
Vocational Career Training Center.
NJ8413202.

Disadvantaged-Youth
Audiovisual Materials for the Disadvantaged (Continuation of DUV 3-1E31).
FL8413303.
Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs.
WA8413302.
Hancock County Entrepreneurial Training Program.
TN8413209.
Promoting Student Achievement.
CA8413303.
Youth Service Job Skills Training and Employment.
TN8413204.

Discovery-Learning
Curriculum Development: Industrial Arts.
TX8413306.

Discussion-Groups
Discussion Time: A Developmental Project to Facilitate the Socialization of Associate Degree Nursing Students.
MO8413110.

Dislocated-Workers
A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.

Displaced-Homemakers
Assessment of the Impact of the Bureau of Vocational Education's Program for Displaced Homemakers.
PA8413114.
English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Displaced Workers
Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

Display-Systems
A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

Dissemination Methods
Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.
CA8413101.

Distributive-Education
A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.
Colorado Marketing and Distributive Education Improvement Plan.
CO8413107.
Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.
Curriculum Development: Marketing and Distributive Education.
TX8413305.
Curriculum Guide for First Year General Marketing Program in the Secondary School Level.
GA8413307.
Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.
Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities).
TX8413109.
Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.
Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course.
GA8413305.
Instructional Guides for Fundamentals of Marketing Occupation and Marketing Distribution.
FL8413309.
Marketing and Distributive Education Curriculum Guide Field Review.
SC8413102.
Marketing Curriculum Guides Dissemination 2.
IL8413302.
Membership Requirements for IDECC (Continuation).
FL8413308.
Model Units for a Semester of Marketing and Distributive Education 1.
LA8413302.
Supermarket Operations.
SC8413307.
Updating Montana Curriculum Guidelines for Distributive Education.
MT8413303.
Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing.
WV8413301.

Distributive Education Clubs of America
Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.
Getting to the Public for a Hearing.
MO8413102.
Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).
PA8413320.

Diversified Cooperative Training
Computer Workshop for Diversified Cooperative Training (DCT) Teachers.
GA8413212.

Diversified Health Occupations
Coordination of Vocational and Academic Curricula.
OH8413102.

Diversified Occupations
Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.
State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Drafting
A Multidisciplinary Research Team Approach to Computer-aided Drafting (CAD) System Selection.
MO8413124.
Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.
LA8413303.
Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.
MO8413117.
Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.
Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Computer-aided Drafting (CAD) Postsecondary Demonstration Program (West Kentucky).
KY8413227.

Coordination of Vocational and Academic Curricula.
OH8413102.

Educational Billingual Industrial Drafting.
TX8413298.

Open-entry/Open-exit Drafting Technology Program.
AR8413105.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Dropout-Prevention

Dropout Prevention in Hart County.
KY8413218.

Dropout Prevention Program in Russell County.
KY8413217.

Project: MOD Squad (Dropout Prevention).
KY8413213.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Student Organization Responsiveness for Dropout Prevention: Laurel County.
KY8413216.

Dropout-Programs

Dropout Prevention Program in Russell County.
KY8413217.

Project: MOD Squad (Dropout Prevention).
KY8413213.

Student Organization Responsiveness for Dropout Prevention: Laurel County.
KY8413216.

Dropout-Research

Project Follow-up.
WA8413105.

Dropouts

Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.
NY8413102.

Project Follow-up.
WA8413105.

Drug-Education

The Impaired Nurse: Development of Curriculum and Related Teaching Materials.
NJ8413301.

Ways of Law.
SC8413316.

Economic-Development

Developing a Center for Small Business—A Model for Economic Development.
CO8413203.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.

Using Personal Computers to Promote Economic Development.
MT8413103.

Vocational Education's Role(s) in Economic Revitalization—Phase 2.
IL8413126.

Economic Literacy

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Economically-Disadvantaged

Hancock County Entrepreneurial Training Program.
TN8413209.

Economics

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Editing

Preparation of Basic Programing Language Editors.
WA8413313.

Preparation of Hewlett Packard-3000 Programing Language Editors.
WA8413312.

Technical Assistance and Staff Support Resources for Competency-based Vocational Education.
MA8413301.

Education-Objectives

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Education-Service-Centers

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

Nebraska Vocational Curriculum Resource Center (Continuation).
NE8413301.

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.
CA8413101.

Education-Work-Relationship

Jobs for Bay State Graduates (Continuation of MA8313209).
MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210).
MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211).
MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212).
MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213).
MA8413202.

Educational-Administration

A Computerized Instructional Program for the Child Care Industry.
TX8413210.

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation).
NM8413101.

MICRO-VERS Version 2.0, Update, Research and Technical Assistance.
IL8413108.

Occupational Education Programs at Community Colleges of the City University of New York (Continuation).
NY8413106.

Women's Employment Resource Center (WERC) Support Services Handbook.
CT8413102.

Educational-Attainment

Home and Family Life Education Program Analysis.
WA8413106.

Educational-Certificates

Employability Voucher System.
WA8413104.

The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209).
AR8413203.

Vocational Information for Career Guidance.
WA8413101.

Educational-Cooperation

Comprehensive Region 1 System for Planning and Coordinating Vocational Education.
IN8413202.

Evaluation Review.
CA8413106.

Regional Planning Study for Vocational Education in Region 12.
IN8413203.

Educational-Development

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education.
NY8413101.

Educational-Diagnosis

Computer Applications for Special Needs Students.
NJ8413108.

Educational-Economics

Continuing Research in Determining Economic Returns on Investment in Selected Occupational Education Programs at Postsecondary Institutions.
NY8413105.

Educational-Equipment

A Multidisciplinary Research Team Approach to Computer-aided Drafting (CAD) System Selection.
MO8413124.

Equipment Inventory for Vocational Programs.
KS8413206.

Special Services for Handicapped Students.
NJ8413102.

Word/Information Processing with Microcomputers in Business Education.
LA8413207.

Educational-Finance

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

Educational-History

Context Evaluation and Status Study of Vocational Education in Florida (Continuation).
FL8313110.

Educational-Innovation

Catalog of Innovations (Continuation of FL8313102).
FL8413118.

Innovative Vocational Education Delivery System.
IL8413109.

Educational-Needs

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.

Feasibility Study: Stevens County Vocational Skills Center.
WA8413103.

Job Training: Development and Evaluation of an Assessment Procedure.
TN8413205.

Leadership Development Program in Vocational Special Needs Education.
IL8413119.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions.
CO8413105.

Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education.
AZ8413101.

Study of Employers' Views on Critical Issues Facing Vocational Education in Pennsylvania.
PA8413116.

Educational-Opportunities

Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
KS8413204.

Educational-Philosophy

Update of the Industrial Arts Rationale in Texas.
TX8413104.

Educational-Planning

A Planning Process for Secondary Vocational Education.
MT8413105.

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach.
PA8413102.

Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Update of the Industrial Arts Rationale in Texas.
TX8413104.

Educational-Policy

Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Educational-Practices

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317).
PA8413313.

Successful Practices in Educational Settings for Working with Handicapped Students.
FL8413115.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania.
PA8413104.

Vocational Improvement Practices (VIP) (Continuation of CT8313207).
CT8413206.

Educational-Quality

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.

Educational-Research

A Planning Process for Secondary Vocational Education.
MT8413105.

A Study of Activities and Impact of Advisory Committees on Vocational Programs.
OK8413102.

A Study of the Certification Needs and Requirements for Teachers of Vocational-Technical Education Programs in the Secondary and Postsecondary Schools of Louisiana.
LA8413106.

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

Articulation Research of Business and Office Education.
MT8413101.

Computer Applications for Special Needs Students.
NJ8413108.

Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101).
LA8413104.

Feasibility of Utilizing Placement Rate Concept in Vocational Education.
CA8413105.

Home and Family Life Education Program Analysis.
WA8413106.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.
TX8413103.

Nurse Staffing Patterns and Implications for Training of Practical Nurses.
OK8413103.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education.
LA8413101.

Research and Experimentation in Applied Learning.
NJ8413107.

The Identification of Recruitment Barriers to Vocational Training Programs as Perceived by Students, Teachers, Counselors and Administrators in Selected Florida Schools.
FL8413101.

Time Allocation Study.
OH8413301.

Training Alternatives for Handicapped Students in Vocational Education Programs.
VA8413101.

Using Personal Computers to Promote Economic Development.
MT8413103.

Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations.
HI8413101.

Educational-Resources

Chicago Coalition—Education/Training Employment.
IL8413117.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Illinois Vocational Curriculum Center.
IL8413102.

Educational-Strategies

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.
TX8413103.

Educational-Television

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Electrical-Occupations

Development of a Revised Curriculum Guide for the Secondary Electromechancial Cluster.
GA8413304.

High Technology Curriculum Development and Dissemination.
GA8413303.

Introduction into Use of Oscilloscope.
OR8413306.

Electrical-Systems

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Electricians

Auto and Electrical Trades Instructional Materials Development.
NJ8413307.

Electricity

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education.
IL8413120.

Electrocardiography

Competency-based Education Curriculum Revision/Upgrading.
WV8413314.

Electromechancial-Technology

High Technology Curriculum Development and Dissemination.
GA8413303.

Electromechanical-Technology

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Development of a Revised Curriculum Guide for the Secondary Electromechancial Cluster.
GA8413304.

Postsecondary Electromechanical Technology.
TX8413311.

Electronic-Equipment

Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers.
MO8413120.

Electronics Postsecondary Demonstration Program (Central Kentucky).
KY8413226.

Electronic-Technicians

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology.
MO8413103.

Electronics

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education.
IL8413120.

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.
WA8413314.

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Electronics Postsecondary Demonstration Program (Central Kentucky).
KY8413226.

Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

High Technology Curriculum Development and Dissemination.
GA8413303.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Oregon Partnership Electronics Program.
OR8413302.

Performance Testing in Electronic Technology.
WA8413108.

Programed Computer-assisted Basic Electronics.
WA8413331.

Robotics in Industrial Arts.
LA8413205.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Elementary-Education

Reducing Sex Bias in the Career Education of Students in Grades 3-6.
WY8413305.

Reversing the Trend toward Sex Role Stereotyping in Schools.
WY8413301.

Elementary-School-Teachers

Reversing the Trend toward Sex Role Stereotyping in Schools.
WY8413301.

Emergency-Medical-Technicians

Curriculum Development: Postsecondary Emergency Medical Technology Paramedic.
TX8413304.

Emerging-Occupations

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair.
KS8413205.

Development of a Competency-based Instruction Curriculum for Biotechnology.
IL8413110.

Prevocational Education Module Revision—Phase 3.
SC8413305.

Emerging Technologies

Articulation Project in Engineering Technology Career Awareness.
TN8413210.

Emotional-Disturbances

Horticulture Opens Pathways to Employment.
NJ8413211.

Employer-Attitudes

Community College Employer Satisfaction Survey.
MA8413101.

Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.

Follow-up and Evaluation Project.
FL8413310.

Follow-up Evaluation Project.
FL8413112.

Jobs for Bay State Graduates (Continuation of MA8313209).
MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210).
MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211).
MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212).
MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213).
MA8413202.

Study of Employers' Views on Critical Issues Facing Vocational Education in Pennsylvania.
PA8413116.

The Effectiveness of Competency Profiles.
OK8413101.

Employment-Opportunities

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

Agriculture/Agribusiness Manpower Research.
MT8413107.

Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.

Curriculum Development—Occupational Orientation.
TX8413310.

Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
KS8413203.

Hancock County Entrepreneurial Training Program.
TN8413209.

Nurse Staffing Patterns and Implications for Training of Practical Nurses.
OK8413103.

Regional Job Title for Classified Students.
NJ8413203.

Vocational Support Services Project.
TN8413201.

Vocational-Technical Information Program.
TN8413213.

Employment-Patterns

Occupational Education Programs at Community Colleges of the City University of New York (Continuation).
NY8413106.

Employment-Potential

Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.

Employability Voucher System.
WA8413104.

Follow-up Evaluation Project.
FL8413112.

Innovative Vocational Education Delivery System.
IL8413109.

Jobs for Bay State Graduates (Continuation of MA8313209).
MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210).
MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211).
MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212).
MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213).
MA8413202.

Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.

Vocational Cooking Class.
WA8413327.

Employment-Projections

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

Agriculture/Agribusiness Manpower Research.
MT8413107.

Assessment of Vocational Training Needs in the Middletown Labor Market Area.
CT8413103.

Chicago Coalition—Education/Training Employment.
IL8413117.

Expanded FY 1984 Occupational Employment Statistics (OES) Research Project.
OH8413103.

Kansas Occupational Information System. KS8413104.
Review of the Vocational Cluster System. OR8413310.

Employment-Qualifications
Computer Assisted Instruction in Feeds and Feeding. MT8413305.
Development of a Secondary-level Robotics Operation and Repair Curriculum. CT8413303.
Follow-up and Evaluation Project. FL8413310.
Instructional Improvement. PA8413306.
Vocational Support Services Project. TN8413201.

Energy-Conservation
Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest. WA8413311.
Farm Business Management and Energy Conservation Adult Programs. VA8413105.

Engineering
Broad-based Applied Technology Program for Secondary Schools. KS8413202.
Broad-based Applied Technology Program for Secondary Schools. KS8413202.

Engineering-Technology
Articulation Project in Engineering Technology Career Awareness. TN8413210.

English
Coordination of Vocational and Academic Curricula. OH8413102.

English-Second-Language
Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education. IL8413120.
Educational Bilingual Industrial Drafting. TX8413298.
English as a Second Language, Basic Skills, and Careers Program. NJ8413208.
Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education. TX8413106.

Enrichment-Activities
Learning Center Demonstration Program for Vocational Education (Daviess County). KY8413228.
North Central Washington Spanish Instruction Modules for Business Occupations. WA8413310.

Enrollment-Influences
Project Civil Rights. WY8413310.
Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations. HI8413101.

Entrepreneurship
Curriculum Development—Occupational Orientation. TX8413310.
Developing a Center for Small Business—A Model for Economic Development. CO8413203.
Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events. VA8413306.
Entrepreneurship Training. NJ8413209.
Hancock County Entrepreneurial Training Program. TN8413209.
Ocean County Vocational-Technical School's Model for Gifted and Talented Entrepreneurship Training Program. NJ8413110.
The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools. TN8413202.

Entry-Workers
Community College Employer Satisfaction Survey. MA8413101.
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics. MA8413311.
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics. MA8413307.
Computer Assisted Instruction in Feeds and Feeding. MT8413305.
Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates. WY8413101.
Development of a Secondary-level Robotics Operation and Repair Curriculum. CT8413303.
Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers. MO8413120.
Implementation of Submerged Arc Welding Training. WA8413321.
Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.
Jobs for Bay State Graduates (Continuation of MA8313210). MA8413203.
Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.
Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.
Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.
Medical Records Technical Program. CO8413201.
Regional Job Title for Classified Students. NJ8413203.
Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data. WA8413111.
Vocational Career Training Center. NJ8413202.
Vocational Cooking Class. WA8413327.
Vocational Individual Proficiencies (VIP). NJ8413104.
Vocational Support Services Project. TN8413201.

Equal-Education
Educational Bilingual Industrial Drafting. TX8413298.
Equal Educational Opportunities in Vocational Programs. KY8413222.
Project BASICS—Building Attitudes and Skills for Improved Career Success. TX8413208.

Equipment
Development of Equipment Simulations for Community College Vocational Curricula. NC8413104.

Equipment-Maintenance
Occupational Hazards in a Business Office. SC8413313.

Equipment-Utilization
Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician. PA8413302.

ERIC
Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials. KS8413301.

Ethical-Instruction
Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing. WA8413107.

Evaluation
Advisory Committees/Councils Effectiveness. KY8413212.
Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions. CO8413105.

Evaluation-Criteria
Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs. WA8413302.
Feasibility of Utilizing Placement Rate Concept in Vocational Education. CA8413105.
Special Services for Handicapped Students. NJ8413102.
Training Materials for Teachers of Disadvantaged Students in Vocational Education. FL8413203.

Evaluation-Methods
A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel. FL8413108.

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs.
TX8413206.

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Connecticut Assessment of Educational Progress: Business and Office Education.
CT8413105.

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring.
NC3413102.

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities).
TX8413109.

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System.
PA8413105.

Follow-up and Evaluation Projects.
FL8413312.

Hancock County Entrepreneurial Training Program.
TN8413209.

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Identification and Evaluation of Assessment Tools Used to Counsel Students.
CO8413202.

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education.
NY8413101.

The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Evaluative-Criteria

An Identification of Science Competencies Taught in Secondary Vocational Agriculture.
NC8413115.

Exceptional-Child-Research

Training Alternatives for Handicapped Students in Vocational Education Programs.
VA8413101.

Exceptional-Persons

Automated Management and Instructional Support for Special Needs Students.
LA8413201.

Exhibits

A Presentation of Secondary Vocational Education in Georgia.
GA8413211.

Experiential-Learning

Child Development Program.
NM8413201.

Principles of Technology.
OH8413302.

Project Career Reach.
NJ8413204.

Study of Work: Phase 2 (Continuation of NJ8313209).
NJ8413207.

Experimental-Programs

Experimental Program in Computer Literacy: Adair County.
KY8413210.

Facility-Inventory

Equipment Inventory for Vocational Programs.
KS8413206.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.
PA8413302.

Faculty-Development

Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped.
NJ8413109.

Scott County Computer Assisted Vocational Education Program.
TN8413203.

Teacher Training, Curriculum, and Student Learning Objectives (SLOs) Development.
WA8413303.

Family-Life-Education

Home and Family Life Education Program Analysis.
WA8413106.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Marriage and Family Life.
OK8413303.

Personal Finances for Adult Students.
KY8413203.

Farm-Accounts

Farm Business Management and Energy Conservation Adult Programs.
VA8413105.

Microcomputerized Farm Records Management.
WA8413307.

Farm-Management

Curriculum Development in Agriculture, 1984.
OR8413304.

Farm Business Management and Energy Conservation Adult Programs.
VA8413105.

Microcomputerized Farm Records Management.
WA8413307.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Farm-Occupations

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Farmers

Swine Farmer—Sequence Tasks.
SC8413314.

Fashion-Industry

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Phase 5 Planning for the Development of Comprehensive, Sequential Vocational Home Economics Curriculum.
IL8413303.

Fast Foods

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Feasibility-Studies

Development of Equipment Simulations for Community College Vocational Curricula.
NC8413104.

Feasibility of Utilizing Placement Rate Concept in Vocational Education.
CA8413105.

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.

Feasibility Study: Stevens County Vocational Skills Center.
WA8413103.

Feasibility Study to Assess Alternative Energy Program Development Potential at the Community College Level.
IL8413106.

Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc.
WA8413318.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.
TX8413103.

Phase 1 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413111.

Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413126.

Robotics Program Feasibility Study.
NJ8413105.

The Role of Vocational Education in Productivity—Phase 1.
MO8413121.

Federal-Aid

Impact of Federal Funds on Selected Industrial Arts Programs in Pennsylvania.
PA8413120.

Feedback

A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel.
FL8413108.

Development of Student Achievement Measures for Vocational Education.
NJ8413103.

Feeds and Feeding

Computer Assisted Instruction in Feeds and Feeding.
MT8413305.

Felling

Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Females

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Project Civil Rights.
WY8413310.

Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory.
PA8413119.

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

Vocational Education—It's Worth a Second Look.
WY8413309.

Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations.
HI8413101.

Women's Employment Resource Center (WERC) Support Services Handbook.
CT8413102.

Fiber Optics Technology

Fiber Optics Communications Technology.
TX8413107.

Field-Crops

Crops and Soils Curriculum Guide.
WA8413330.

Field-Tests

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs.
TX8413206.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).
PA8413318.

Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
KS8413203.

Marketing and Distributive Education Curriculum Guide Field Review.
SC8413102.

Performance Testing in Electronic Technology.
WA8413108.

Filmstrips

Auto and Electrical Trades Instructional Materials Development.
NJ8413307.

Final Reports

Third Party Evaluation of Program Improvement Projects.
CA8413104.

Financial-Needs

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.
CO8413102.

Financial Success

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Financial-Support

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.
CO8413102.

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).
VA8413103.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System.
PA8413319.

Fisheries

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System.
WA8413326.

Flexible Automation

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Florida Education Information Service

Third Party Evaluation of Florida Education Information Service (FEIS).
FL8413119.

Florida Educators Information Service

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).
FL8413302.

Fluid-Mechanics

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Followup-Studies

A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel.
FL8413108.

Develop and Implement Performance-based Industrial Training (Training For Profit).
IN8413302.

Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.
NY8413102.

High School and Beyond Longitudinal Study—Augmentation.
IL8413113.

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Industry/Education Coordinator.
PA8413201.

Long Range Follow-up of Students Enrolled in Cherry Creek District Vocational Education Programs.
CO8413106.

Project Follow-up.
WA8413105.

Standardized Procedures for Follow-Up Assessment.
IL8413124.

Food

Foods Modules.
SC8413309.

Food Preservation

Food Processing Course Outline and Resource Manual.
LA8413301.

Food-Processing-Occupations

Food Processing Course Outline and Resource Manual.
LA8413301.

Food-Service

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.
CO8413103.

Competency Development of a Hospitality Curriculum.
WV8413315.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.
VA8413308.

Vocational Cooking Class.
WA8413327.

Food-Stores

Supermarket Operations.
SC8413307.

Forage Testing

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System.
PA8413105.

Force-Field-Analysis

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Forestry
Computer Software for Forestry Technology Curricula.
WA8413324.
Curriculum—Forest Products Computer Bibliography.
OR8413308.
Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Front Wheel Drive Vehicles
Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive.
WA8413305.

Functional-Literacy
The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Fundamental-Concepts
Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas.
TX8413102.

Games
Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

General-Education
Follow-up and Evaluation Project.
FL8413310.

Generalizable Mathematics Skills
The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Geographic-Location
The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Geographic-Regions
The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Geriatrics
Produce and Disseminate a Competency-based Curriculum for the Occupation of Geriatric Nursing Assistant.
AZ8413301.

Gerontology
Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I.
WA8413306.

Gifted
Ocean County Vocational-Technical School's Model for Gifted and Talented Entrepreneurship Training Program.
NJ8413110.

Government-School-Relationship
Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments.
KS8413103.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Grade-10
Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
KS8413204.

Grade-11
Experimental Program in Computer Literacy: Adair County.
KY8413210.

Grade-12
Connecticut Assessment of Educational Progress: Business and Office Education.
CT8413105.
Experimental Program in Computer Literacy: Adair County.
KY8413210.

Grade-6
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.

Grade-7
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.

Grade-8
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.
Project: MOD Squad (Dropout Prevention).
KY8413213.

Grade-9
Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
KS8413204.
Project: MOD Squad (Dropout Prevention).
KY8413213.
Vocational Assessment Consortium: Bluegrass Area.
KY8413214.
Vocational Assessment Consortium: Wilderness Trail.
KY8413215.

Graduate Assistants
Provisions for Research Associate (Continuation).
FL8413105.
Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Graduate-Surveys
Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.
Community College Employer Satisfaction Survey.
MA8413101.
High School and Beyond Longitudinal Study—Augmentation.
IL8413113.

Graduates
Follow-up Evaluation Project.
FL8413112.

Industry/Education Coordinator.
PA8413201.
Relocate for Better Jobs.
NJ8413309.

Grants
Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).
VA8413103.
New Local Program Curriculum Development.
MI8413301.
Promising Practices Diffusion.
OR8413202.

Greenhouses
A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management.
MA8413302.

Grounds-Keepers
Horticulture Opens Pathways to Employment.
NJ8413211.

Group-Dynamics
Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations.
HI8413101.

Guidance-Personnel
Identification and Evaluation of Assessment Tools Used to Counsel Students.
CO8413202.

Guidelines
Articulation—Phase I: Spokane Area Vocational Skills Center/Spokane Falls Community College. Development of a Model.
WA8413109.
Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped.
NJ8413109.
California Vocational Education Program for Compliance with the Office for Civil Rights Guidelines for Eliminating Discrimination and Denial of Services Based on Race, Color, National Origin, Sex, or Handicap.
CA8413103.
Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care.
WA8413322.
Exemplary Software.
TN8413211.
Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.
Relocate for Better Jobs.
NJ8413309.
Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103).
VA8413102.
State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.
Updating Montana Curriculum Guidelines for Distributive Education.
MT8413303.

Guides
Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education. IL8413120.
Continuation of Job Related Physical Capacity (JRPC). FL8413201.
Curriculum Development—Occupational Orientation. TX8413310.
Curriculum Materials: Health Occupations. TX8413309.
Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs. TX8413204.
High Technology Training Publication. IL8413104.
Improving Data Quality and Vocational Education Data System (VEDS) Reporting. CA8413102.
Learning Center Demonstration Program for Vocational Education (Daviess County). KY8413228.
MICRO-VERS Version 2.0, Update, Research and Technical Assistance. IL8413108.
Microcomputer Applications: An Impact for Local Vocational Programs. IL8413107.
Microcomputer Program Catalogs for Agriculture/Natural Resources. CA8413302.
Promotion of Equity in Vocational Education. WY8413306.
Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators. IL8413122.
Relocate for Better Jobs. NJ8413309.
Technical Assistance and Staff Support Resources for Competency-based Vocational Education. MA8413301.
The Identification of Recruitment Barriers to Vocational Training Programs as Perceived by Students, Teachers, Counselors and Administrators in Selected Florida Schools. FL8413101.
Training and Implementation of Computer-managed, Competency-based New Teacher Institution. GA8413214.
Vocational Education Curriculum Development. MO8413301.
Vocational Education Reporting System (VERS) Management Project. VA8413109.
Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician. PA8413302.
Women's Employment Resource Center (WERC) Support Services Handbook. CT8413102.
Working Together: Employers and Educators. CT8413205.

Hands On Experience
An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.
Articulation Project in Engineering Technology Career Awareness. TN8413210.
Computer Training for the Adult Community. KY8413206.
Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes. WA8413323.
Dropout Prevention in Hart County. KY8413218.
Experimental Program in Computer Literacy: Adair County. KY8413210.
High Technology Internship. TX8413205.
Network Communications Utilizing Remote Sites as Exemplary Demonstration Sites on Microcomputers in Business Education. MT8413201.
The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers. AZ8413202.
Vocational Cooking Class. WA8413327.
Vocational Support Services Project. TN8413201.

Hands On Learning
Principles of Technology. OH8413302.

Hazardous Wastes
Ways of Law. SC8413316.

Health-Education
Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.

Health Occupations Students of America
Student Organization Responsiveness for Dropout Prevention: Laurel County. KY8413216.

Health-Personnel
Health Services Careers (revised 1985). OK8413310.
Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I. WA8413306.

Health-Services
Health Services Careers (revised 1985). OK8413310.
Licensed Practical Nursing—Training Assistance for Disadvantaged Students. LA8413203.

Hewlett-Packard 3000
Preparation of Hewlett Packard-3000 Programing Language Editors. WA8413312.

High-School-Graduates
Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates. WY8413101.
High School and Beyond Longitudinal Study—Augmentation. IL8413113.

High-School-Seniors
Entrepreneurship Training. NJ8413209.
Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.
Jobs for Bay State Graduates (Continuation of MA8313210). MA8413203.
Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.
Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.
Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.

High-School-Students
A Study to Determine the Success of Girls in Vocational Agriculture Programs. WY8413302.
Career Exploration for Women in Nontraditional Roles. WY8413303.
High School and Beyond Longitudinal Study—Augmentation. IL8413113.
Promotion of Equity in Vocational Education. WY8413306.
Vocational Education—It's Worth a Second Look. WY8413309.

High-Schools
Academic/Vocational Project: Fairdale High School. KY8413220.
Articulation between Secondary and Postsecondary Vocational-Technical Education. TN8413212.

High Technology
Articulation Project in Engineering Technology Career Awareness. TN8413210.
Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair. KS8413205.
High Technology Training Publication. IL8413104.
Occupational Hazards in a Business Office. SC8413313.
Provide Articulation of the Resources of Secondary School, Area Vocational-Technical School, Community College, Hospital, and Business to Provide Training in High Technology. KS8413201.
Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields. KY8413201.

Home-Economics
Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics. AZ8413303.
Development and Implementation of Curriculum for Wage Earning Home Economics Programs. MT8413309.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Statewide Evaluation of Vocational Education's Consumer and Homemaking Programs.
PA8413109.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.

Vocational Education Consultants.
NM8413303.

Home-Economics-Education

Family Economics—Modules.
SC8413308.

Foods Modules.
SC8413309.

Home-Economics-Teachers

Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101).
LA8413104.

Development and Implementation of Curriculum for Wage Earning Home Economics Programs.
MT8413309.

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas.
TX8413102.

Promoting Student Achievement.
CA8413303.

Home-Health-Aides

Nurse Staffing Patterns and Implications for Training of Practical Nurses.
OK8413103.

Homemaking-Skills

Competency-based Education Curriculum Development for Homemaking Materials (Continuation of WV8313302).
WV8413312.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.

Horizontal-Organization

Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Horticulture

Horticulture Opens Pathways to Employment.
NJ8413211.

Horticulture Training.
NJ8413210.

Illinois Core Curriculum in Agriculture Project.
IL8413301.

Hospital-Personnel

Ward Secretary Simulation Software Development.
WA8413316.

Hospitality-Occupations

Competency Development of a Hospitality Curriculum.
WV8413315.

Human-Resources

Chicago Coalition—Education/Training Employment.
IL8413117.

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

Hydraulics

Integrating Hydraulics Curriculum into Two-year Machine Shop Program.
MO8413114.

Identification

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Successful Practices in Educational Settings for Working with Handicapped Students.
FL8413115.

Impact Education

Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana.
MT8413111.

Impact Evaluation

A Study of Activities and Impact of Advisory Committees on Vocational Programs.
OK8413102.

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan.
IL8413118.

An Assessment of Vocational Education in Massachusetts.
MA8413102.

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.

Assessment of the Impact of the Bureau of Vocational Education's Program for Disadvantaged Populations in Pennsylvania.
PA8413107.

Assessment of the Impact of the Bureau of Vocational Education's Program for Displaced Homemakers.
PA8413114.

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.

First-Year Impact of Customized Job Training Program.
PA8413108.

Getting to the Public for a Hearing.
MO8413102.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Impact of Federal Funds on Selected Industrial Arts Programs in Pennsylvania.
PA8413120.

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Showcase '84: Statewide Dissemination and Utilization for Postsecondary Occupational Education.
NY8413104.

Standardized Procedures for Follow-Up Assessment.
IL8413124.

Time Allocation Study.
OH8413301.

Improvement

Medical Records Technicial Program.
CO8413201.

Microcomputer Applications: An Impact for Local Vocational Programs.
IL8413107.

Program Guide for Data Processing Occupations.
FL8413306.

Improvement-Programs

Automated Management and Instructional Support for Special Needs Students.
LA8413201.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Curriculum Development—Occupational Orientation.
TX8413310.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana.
LA8413103.

Industrial Cooperative Training Curriculum and Related Activities.
AR8413103.

Robotics in Industrial Arts.
LA8413205.

Update of the Industrial Arts Rationale in Texas.
TX8413104.

Update of the Secondary Vocational Office Education Data Processing Curriculum.
TX8413108.

Individual-Characteristics

Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.

Individualized-Education-Programs

Development of a Competency-based Vocational Education Individualized Education Program (IEP) Model. PA8413316.

Pivot A Lift: PAL. KY8413209.

Individualized-Instruction

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners. PA8413112.

Competency-based Education Project. FL8413305.

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305). PA8413314.

Curriculum Development: Marketing and Distributive Education. TX8413305.

Curriculum Materials: Health Occupations. TX8413309.

Development of an Electronics Technician Core Curriculum. AZ8413302.

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum. MO8413305.

High Technology Internship. TX8413205.

Individualized/Mediated Curriculum Materials Development for Vocational Education. MO8413303.

Licensed Practical Nursing—Training Assistance for Disadvantaged Students. LA8413203.

Shawnee-Detrick Academic/Vocational Project. KY8413230.

Industrial-Arts

Advanced Technical Drafting, Advanced Metals, Advanced Woodworking. LA8413303.

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.

Competency Development for Industrial Arts Manufacturing Technology (Grades 5-8). WV8413310.

Competency Development for Industrial Arts Transportation Technology (Grades 5-8). WV8413309.

Competency Development for Industrial WVTS Construction Technology (Grades 5-8). WV8413308.

Curriculum Development: Industrial Arts. TX8413306.

Curriculum Development: Vocational Industrial Education Cooperative Training. TX8413308.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308). WV8413313.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry. VA8413303.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology). VA8413311.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology. VA8413304.

High School Industrial Arts Curriculum Guide. OR8413307.

Impact of Federal Funds on Selected Industrial Arts Programs in Pennsylvania. PA8413120.

Project Civil Rights. WY8413310.

Robotics in Industrial Arts. LA8413205.

Update of the Industrial Arts Rationale in Texas. TX8413104.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts. WV8413306.

Industrial-Arts-Teachers

Development of a Model for Technical Updating of Vocational Teachers in Florida. FL8413114.

Industrial-Education

Creating a Clientele for Vocational Education. WY8413308.

Curriculum Development: Vocational Industrial Education Cooperative Training. TX8413308.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology. VA8413304.

Educational Billingual Industrial Drafting. TX8413298.

High Technology Internship. TX8413205.

Illinois Plan for Industrial Education. IL8413101.

Industrial Cooperative Training Curriculum and Related Activities. AR8413103.

Industrial Education Curriculum Development. MT8413310.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education. MT8413203.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts. WV8413306.

Vocational Education—It's Worth a Second Look. WY8413309.

Industrial-Personnel

Industry Panel Curriculum Project. OR8413309.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions. CO8413105.

Industry

Job Training Consortium Program—Industry/Education Coordinator. PA8413205.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions. CO8413105.

Revision of Special Needs Diversified Occupations Curriculum. WA8413301.

The Role of Vocational Education in Productivity—Phase 1. MO8413121.

Influences

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102). VA8413106.

Information-Centers

Illinois Vocational Curriculum Center. IL8413102.

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service. CA8413101.

Information-Dissemination

A Study of the Congruency between the Interests and Concerns of Student Participants and the Goals, Objectives, and Activities of Vocational Student Organizations. MO8413118.

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education. MN8413102.

Catalog of Innovations (Continuation of FL8313102). FL8413118.

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105). WI8413101.

Creating a Clientele for Vocational Education. WY8413308.

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317). PA8413313.

Development and Dissemination of Statewide Newsletter for Vocational Personnel Who Serve the Handicapped Students. PA8413311.

Dissemination of 82-131-600-10(116-116)(B) Admissions Criteria. MO8413119.

Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers. MO8413120.

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11). FL8413302.

From Issues to Action: Vocational Home Economics in Missouri. MO8413108.

Illinois Plan for Industrial Education. IL8413101.

Illinois Vocational Curriculum Center. IL8413102.

Improving Data Quality and Vocational Education Data System (VEDS) Reporting. CA8413102.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation). NM8413101.

Maryland Vocational Curriculum Research and Development Center (Continuation). MD8413301.

Middlesex Consortium: Vocational Education. CT8413202.

Nebraska Vocational Curriculum Resource Center Catalog. NE8413302.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials. TX8413313.

Program Guide for Word Processing Occupations. FL8413304.

Project BASICS—Building Attitudes and Skills for Improved Career Success. TX8413208.

Project Career Reach. NJ8413204.

Project Link. CT8413101.

Showcase '84: Statewide Dissemination and Utilization for Postsecondary Occupational Education. NY8413104.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System. PA8413319.

Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308). VA8413314.

Vocational Education's Role(s) in Economic Revitalization—Phase 2. IL8413126.

Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory. TX8413301.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302). WI8413301.

Vocational Studies Center—Research Component (Continuation of WI8313104). WY8413102.

Information-Disseminaton

Information Distribution Plan. SC8413101.

Information-Networks

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials. KS8413301.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2. VA8413313.

Information-Processing

Integration of an Information Processing Center into a Modern/Office Word Processing Technology Course. MO8413106.

Kansas Information/Word Processing Curriculum Guide Update. KS8413302.

Information-Retrieval

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11). FL8413302.

Information Distribution Plan. SC8413101.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals. GA8413302.

Information-Services

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education. MN8413102.

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11). FL8413302.

Illinois Vocational Curriculum Center. IL8413102.

Vocational Support Services Project. TN8413201.

Information-Sources

Microcomputer Program Catalogs for Agriculture/Natural Resources. CA8413302.

Information-Systems

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11). FL8413302.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation). NM8413101.

Information-Utilization

Illinois Vocational Curriculum Center. IL8413102.

Promising Practices Diffusion. OR8413202.

Inhalation-Therapists

Expanding the Respiratory Therapy Curriculum. WA8413320.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103). VA8413102.

Inhalation-Therapy

Statewide Respiratory Therapy Program Curriculum Development. CA8413306.

Inservice-Education

Development of Professional Instructional Materials for Vocational Education Administrators. FL8413107.

Development of Student Achievement Measures for Vocational Education. NJ8413103.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO). TX8413112.

Illinois Plan for Industrial Education. IL8413101.

Leadership Development Program in Vocational Special Needs Education. IL8413119.

Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.

Vocational Education Reporting System (VERS) Management Project. VA8413109.

Inservice-Teacher-Education

An Evaluation of Business Teacher Education in Connecticut. CT8413104.

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners. PA8413112.

Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped. NJ8413109.

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305). PA8413314.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System. LA8413102.

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials. KS8413301.

Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments. KS8413103.

Instruction in Intravenous Therapy. MT8413311.

Kansas Competency-based Vocational Education Project—FY 1984. KS8413303.

Marketing Curriculum Guides Dissemination 2. IL8413302.

Project TRADE: Teacher Retraining and Directed Exchange. OH8413101.

Promoting Student Achievement. CA8413303.

Resource Center. MO8413302.

Study of Work: Phase 2 (Continuation of NJ8313209). NJ8413207.

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE). MA8413316.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2. VA8413313.

Institutes-Training-Programs

Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal. NC8413107.

Training and Implementation of Computer-managed, Competency-based New Teacher Institution. GA8413214.

Institutional-Advancement

Developing the Marketing of the Adult College Reentry Network at Mineral Area College (Continuation of MO8313111). MO8413123.

Institutional-Cooperation

Inter-District Enrollment Project. CT8413201.

Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.
WA8413317.

Instructional-Development

Curriculum Guide for First Year General Marketing Program in the Secondary School Level.
GA8413307.

Instructional-Films

Develop and Implement Performance-based Industrial Training (Training For Profit).
IN8413302.

Instructional-Improvement

Creating a Clientele for Vocational Education.
WY8413308.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana.
LA8413103.

Statewide Respiratory Therapy Program Curriculum Development.
CA8413306.

Instructional-Material

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture.
PA8413308.

Instructional-Material-Evaluation

Using Personal Computers to Promote Economic Development.
MT8413103.

Instructional-Materials

An Application of Computer Graphics Curriculum to Selected Vocational-Technical Programs.
TX8413201.

Auto and Electrical Trades Instructional Materials Development.
NJ8413307.

Basic Auto Body Construction.
OK8413306.

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.

Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205).
AR8413201.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Computerized Numerical Control Turning Technician.
OK8413304.

Curriculum Development: Industrial Arts.
TX8413306.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Curriculum Development—Postsecondary Office Occupations Competency Tests.
TX8413302.

Curriculum Development: Vocational Industrial Education Cooperative Training.
TX8413308.

Curriculum Development—Vocational Office Education.
TX8413303.

Curriculum Materials: Health Occupations.
TX8413309.

Curriculum Publications Clearinghouse.
IL8413305.

Dental Hygiene Instructional Videotape Development.
NJ8413308.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Development and Implementation of Curriculum for Wage Earning Home Economics Programs.
MT8413309.

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).
PA8413318.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials.
KS8413301.

Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development.
MO8413304.

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum.
MO8413305.

Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest.
WA8413311.

Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Fundamentals of Carpentry.
OK8413302.

Health Services Careers (revised 1985).
OK8413310.

Illinois Vocational Curriculum Center.
IL8413102.

Industrial Cooperative Training Curriculum and Related Activities.
AR8413103.

Introduction to Auto Body.
OK8413305.

Marketing.
OK8413307.

Marriage and Family Life.
OK8413303.

Maryland Vocational Curriculum Research and Development Center (Continuation).
MD8413301.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Nebraska Vocational Curriculum Resource Center (Continuation).
NE8413301.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Phase 5 Planning for the Development of Comprehensive, Sequential Vocational Home Economics Curriculum.
IL8413303.

Principles of Technology.
IL8413128.

Proposal to Conduct Phase 5 of the Office Simulation Project.
GA8413301.

Reducing Sex Bias in the Career Education of Students in Grades 3-6.
WY8413305.

Residential Carpentry (revised 1985).
OK8413309.

Resource Center.
MO8413302.

Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive.
WA8413305.

Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).
WA8413325.

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Supermarket Operations.
SC8413307.

Technical Assistance and Staff Support Resources for Competency-based Vocational Education.
MA8413301.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania.
PA8413104.

Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).
OR8413311.

Training Materials for Teachers of Disadvantaged Students in Vocational Education.
FL8413203.

Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.

Vocational Agriculture 1 (revised 1985).
OK8413301.

Vocational Agriculture 2 (revised 1985).
OK8413308.

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.
CA8413101.

Vocational Education Curriculum Development.
MO8413301.

Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).
VA8413314.

Vocational Information and Program Services (VIPS).
NM8413301.

Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory.
TX8413301.

Vocational Mathematics in Trade and Industrial Education.
SC8413304.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Instructional-Materials-Evaluation

The Effectiveness of Competency Profiles.
OK8413101.

Instrumental Analysis

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Instrumentation

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Insurance

Ways of Law.
SC8413316.

Integrated-Curriculum

Follow-up and Evaluation Project.
FL8413310.

Interaction

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Microcomputers in Agricultural Education.
VA8413107.

Interactive-Instruction

Vocational Career Training Center.
NJ8413202.

Interest-Research

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.

Internship-Programs

High Technology Internship.
TX8413205.

Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.

Interpersonal-Competence

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Pivot A Lift: PAL.
KY8413209.

Interstate Distributive Education Curriculum Consortium

Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).
PA8413320.

Interviews

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.

Getting to the Public for a Hearing.
MO8413102.

Intravenous Therapy

Instruction in Intravenous Therapy.
MT8413311.

Introductory-Courses

Computer Graphics.
NJ8413303.

Curriculum Guide for First Year General Marketing Program in the Secondary School Level.
GA8413307.

Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course.
GA8413305.

Introduction to Auto Body.
OK8413305.

Introduction to Robotics Curriculum.
MO8413115.

Preparation of Basic Programing Language Editors.
WA8413313.

Introductory-Programs

Programed Computer-assisted Basic Electronics.
WA8413331.

Investment

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Investment Credit

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Irrigation

Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest.
WA8413311.

Item-Banks

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Job-Analysis

A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management.
MA8413302.

A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices.
MA8413303.

A Model Competency-based Vocational Education Curriculum (CBVE) for Child Care Assistant.
MA8413304.

A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting.
MO8413101.

Competency-based Vocational Education (CBVE) Curriculum Development and Implementation—Five-year Plan.
PA8413310.

Competency Development of a Hospitality Curriculum.
WV8413315.

Instructional Improvement.
PA8413306.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Program Development and Dissemination.
MI8413302.

Training Curriculum for Millmen and Cabinetmakers.
OR8413305.

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture.
WV8413307.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.
WV8413305.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.

Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing.
WV8413301.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts.
WV8413306.

Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial.
WV8413302.

Vocational Program Mapping and Follow-up Evaluation. FL8413311.

Vocational-Technical Education Consortium of States (V-TECS) in Virginia. VA8413104.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician. PA8413309.

Job-Applicants

Relocate for Better Jobs. NJ8413309.

Job-Development

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring. NC8413102.

Job-Placement

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring. NC8413102.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System. NC8413101.

Exemplary Project for Training and Placement of Displaced Workers. AZ8413201.

Feasibility of Utilizing Placement Rate Concept in Vocational Education. CA8413105.

Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210). MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.

Job-Search-Methods

Career Passport Experience Profile Guide. KY8413202.

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School. WY8413304.

Industry/Education Coordinator. PA8413201.

Relocate for Better Jobs. NJ8413309.

Job-Skills

A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting. MO8413101.

An Evaluation of Business Teacher Education in Connecticut. CT8413104.

Community College Employer Satisfaction Survey. MA8413101.

Computer Training for the Adult Community. KY8413206.

Curriculum Development—Postsecondary Office Occupations Competency Tests. TX8413302.

Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates. WY8413101.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped. NJ8413305.

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring. NC8413102.

Development of a Secondary-level Robotics Operation and Repair Curriculum. CT8413303.

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities). TX8413109.

Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers. MO8413120.

Educational Billingual Industrial Drafting. TX8413298.

English as a Second Language, Basic Skills, and Careers Program. NJ8413208.

Exemplary Project for Training and Placement of Displaced Workers. AZ8413201.

Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices. KS8413203.

Follow-up Evaluation Project. FL8413112.

Hancock County Entrepreneurial Training Program. TN8413209.

High Technology Internship. TX8413205.

Improving the Vocational Curriculum: Basic Business Skills for Vocational Students. WA8413319.

Industry/Education Coordinator. PA8413203.

Innovative Vocational Education Delivery System. IL8413109.

Instructional Improvement. PA8413306.

Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210) MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.

Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas. TX8413102.

Project BASICS—Building Attitudes and Skills for Improved Career Success. TX8413208.

Project VOICE (Vocational Interpretation and Curriculum Enrichment) (Continuation). TN8413206.

Research to Develop a Curriculum Continuum of Prevocational Skills. TX8413110.

Research to Develop Basic Skills Proficiencies for Limited English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education. TX8413106.

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology. MO8413103.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data. WA8413111.

Trades and Industry Technical Skill Examinations Assessment and Revision. SC8413103.

Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture. WV8413307.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office. WV8413305.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking. WV8413304.

Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing. WV8413301.

Using Microcomputers in Vocational Education To Teach Skills Needed in Health. WV8413303.

Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts. WV8413306.

Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial. WV8413302.

Vocational Career Training Center. NJ8413202.

Vocational Individual Proficiencies (VIP). NJ8413104.

Vocational Support Services Project. TN8413201.

Youth Service Job Skills Training and Employment. TN8413204.

Job Titles

Agriculture/Agribusiness Manpower Research. MT8413107.

Job-Training

Adult and Postsecondary Developmental Initiatives. PA8413204.

English as a Second Language, Basic Skills, and Careers Program. NJ8413208.

Exemplary Project for Training and Placement of Displaced Workers. AZ8413201.

First-Year Impact of Customized Job Training Program. PA8413108.

High Technology Training Needs Assessment.
NJ8413101.

Horticulture Training.
NJ8413210.

Industry/Education Coordinator.
PA8413203.

Job Training Consortium Program—Industry/Education Coordinator.
PA8413205.

Job Training: Development and Evaluation of an Assessment Procedure.
TN8413205.

Project Link.
CT8413101.

Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education.
AZ8413101.

Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.

Training Alternatives for Handicapped Students in Vocational Education Programs.
VA8413101.

Work Analysis Specialist.
IN8413303.

Job Training Partnership Act

Industry/Education Coordinator.
PA8413203.

Junior-High-School-Students

Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.

Student Organization Responsiveness for Dropout Prevention: Laurel County.
KY8413216.

Junior-High-Schools

Reversing the Trend toward Sex Role Stereotyping in Schools.
WY8413301.

Keyboarding

Using the Microcomputer to Teach Keyboarding Skills.
VA8413108.

Knowledge-Level

Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.

Staff Development Curriculum for High Technology Instructors.
GA8413306.

Labor-Force-Development

High Technology Training Needs Assessment.
NJ8413101.

Unity for a Quality Vocational Delivery System in the Metropolitan Nashville Community.
TN8413208.

Labor-Market

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

Assessment of Vocational Training Needs in the Middletown Labor Market Area.
CT8413103.

Chicago Coalition—Education/Training Employment.
IL8413117.

Expanded FY 1984 Occupational Employment Statistics (OES) Research Project.
OH8413103.

Labor-Markets

A Planning Process for Secondary Vocational Education.
MT8413105.

Labor-Needs

Agriculture/Agribusiness Manpower Research.
MT8413107.

Assessment of Vocational Training Needs in the Middletown Labor Market Area.
CT8413103.

Chicago Coalition—Education/Training Employment.
IL8413117.

High Technology Training Publication.
IL8413104.

Kansas Occupational Information System.
KS8413104.

New Local Program Curriculum Development.
MI8413301.

Nurse Staffing Patterns and Implications for Training of Practical Nurses.
OK8413103.

Project Link.
CT8413101.

Review of the Vocational Cluster System.
OR8413310.

Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.

Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Labor-Supply

Assessment of Vocational Training Needs in the Middletown Labor Market Area.
CT8413103.

Chicago Coalition—Education/Training Employment.
IL8413117.

Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Labor-Turnover

Agriculture/Agribusiness Manpower Research.
MT8413107.

Laboratory-Equipment

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Laboratory-Experiments

Principles of Technology.
OH8413302.

Principles of Technology.
IL8413128.

Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).
WA8413325.

Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.

Laboratory-Manuals

Curriculum Development: Postsecondary Cosmetology Instructor Program Materials.
TX8413307.

Curriculum Development: Postsecondary Emergency Medical Technology Paramedic.
TX8413304.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Laboratory-Procedures

Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Laboratory-Training

The Fourth Basic: Computer Skills.
KY8413204.

Laser Technician

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.
PA8413302.

Law-Enforcement

Competency-based Education Curriculum Revision/Upgrading.
WV8413314.

Leadership-Training

Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal.
NC8413107.

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.

Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar.
IL8413127.

Leadership Development Program in Vocational Special Needs Education.
IL8413119.

Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2.
VA8413313.

Learning-Activities

Cosmetology—Vocational Education Consortium of States (V-TECS) Guide.
SC8413302.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413303.

Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413301.

Project BASICS—Building Attitudes and Skills for Improved Career Success.
TX8413208.

Understanding Robotics.
NJ8413304.

Learning-Disabilities

Computer Applications for Special Needs Students.
NJ8413108.

Learning-Laboratories

Learning Center Demonstration Program for Vocational Education (Daviess County).
KY8413228.

Learning-Modules

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

Agricultural Curriculum Development.
WI8413302.

Business and Office Curriculum Update.
WA8413328.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413311.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413307.

Curriculum Development in Vocational Agriculture.
CA8413305.

Curriculum Development of Learning Activity Packets (LAPs)—Dental Assisting Program.
WA8413304.

Defining Math and Science Competencies in Vocational Programs.
WA8413335.

Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.
WA8413314.

Entrepreneurship Training.
NJ8413209.

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.
GA8413216.

Exemplary Software.
TN8413211.

Illinois Core Curriculum in Agriculture Project.
IL8413301.

Implementing Competency-based Vocational Education (CBVE).
PA8413307.

Integrating Hydraulics Curriculum into Two-year Machine Shop Program.
MO8413114.

Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses.
NC8413113.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses.
NC8413112.

Microcomputer-based Instruction for Digital Electronics.
MO8413113.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Postsecondary Electromechanical Technology.
TX8413311.

Preparation of Basic Programing Language Editors.
WA8413313.

Preparation of Hewlett Packard-3000 Programing Language Editors.
WA8413312.

Principles of Technology.
OH8413302.

Science Competencies of Health Occupations Courses.
NC8413114.

The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers.
AZ8413202.

The Role of Vocational Education in Productivity—Phase 1.
MO8413127.

Update Visual Media Technologies Program Graphics 1 to Include New Computer Graphics and Computer Typesetting Technologies.
WA8413315.

Word Processing Instructional Materials for the CPT.
MT8413301.

Learning-Problems

The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Learning-Readiness

The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Learning-Strategies

Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.
MO8413117.

Expanding the Respiratory Therapy Curriculum.
WA8413320.

Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology.
MO8413103.

Legal-Responsibility

Ways of Law.
SC8413316.

Lesson-Plans

Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes.
WA8413323.

Occupational Hazards in a Business C[illegible]e.
SC84[illegible]13.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Ways of Law.
SC8413316.

Library-Materials

Vocational Support Services Project.
TN8413201.

Library-Services

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Life Events

Career Passport Experience Profile Guide.
KY8413202.

Life Goals

Project: MOD Squad (Dropout Prevention).
KY8413213.

Limited-English-Speaking

Career Speech Development.
NJ8413201.

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education.
IL8413120.

Development, Adaptation, and Modification of Curriculum Materials for Limited English-speaking Students.
PA8413312.

Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.
TX8413204.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).
PA8413318.

Educational Billingual Industrial Drafting.
TX8413298.

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Implementation of Gerontology Curriculum in the Community Health Advocate (CHA) Program—Phase I.
WA8413306.

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Linkages

Survey of Collaborative Efforts between Schools/Business/Industry/Labor.
OR8413101.

Literature-Reviews

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Livestock

Cattle Rancher—Sequenced Catalog.
SC8413315.

Swine Farmer—Sequence Tasks.
SC8413314.

Long-Range-Planning

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.

Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.
PA8413317.

Staff Development Curriculum for High Technology Instructors.
GA8413306.

Longitudinal-Studies

High School and Beyond Longitudinal Study—Augmentation.
IL8413113.

Long Range Follow-up of Students Enrolled in Cherry Creek District Vocational Education Programs.
CO8413106.

Low-Achievement

Horticulture Opens Pathways to Employment.
NJ8413211.

Jobs for Bay State Graduates (Continuation of MA8313209).
MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210).
MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211).
MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212).
MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213).
MA8413202.

Machine-Repairers

Development of a Secondary-level Robotics Operation and Repair Curriculum.
CT8413303.

Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

Machine Shop

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413303.

Machine-Tool-Operators

Computerized Numerical Control Turning Technician.
OK8413304.

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413303.

Machinists

A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices.
MA8413303.

Magnet-Schools

Design of a Health Occupations Magnet Program in the Rio Grande Valley.
TX8413105.

Magnetic-Tape-Cassettes

Ways of Law.
SC8413316.

Maintenance

Develop a Curriculum on Robot Service/Repair and Adapt Findings for a Kansas Curriculum Model.
KS8413102.

Research Existing Curriculum Materials on Microcomputer Service and Repair and Adapt the Findings for a Kansas Curriculum Model.
KS8413101.

Man-Machine-Systems

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Robotics in Industrial Arts.
LA8413205.

Management-Development

Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal.
NC8413107.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.

Management-Information-Systems

Computer Applications for Special Needs Students.
NJ8413108.

Management-Systems

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305).
PA8413314.

Management Information System/Vocational-Technical Information System (MIS/VTIS) (Continuation).
NM8413101.

Microcomputerized Farm Records Management.
WA8413307.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.

The Role of Vocational Education in Productivity—Phase 1.
MO8413127.

Vocational Education Reporting System (VERS) Management Project.
VA8413109.

Management-Teams

Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.
PA8413317.

Manufacturing

Competency Development for Industrial Arts Manufacturing Technology (Grades 5-8).
WV8413310.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing.
VA8413312.

Dissemination of 83-131/132-600-1(116-116)—Survey of Entry-level Skills Training by Selected Missouri Manufacturers.
MO8413120.

Marketing

A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.

A Study of the Factors that Enhance or Impede the Delivery of Vocational Services to Youth and Adults in Virginia (Continuation of VA8313102).
VA8413106.

Colorado Marketing and Distributive Education Improvement Plan.
CO8413107.

Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Development of a Model for Recruiting the New Community College Student.
NC8413103.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities).
TX8413109.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Further Development and Printing of a Curriculum Guide for a Secondary General Marketing Course.
GA8413305.

Instructional Guides for Fundamentals of Marketing Occupation and Marketing Distribution.
FL8413309.

Marketing.
OK8413307.

Marketing and Distributive Education Curriculum Guide Field Review.
SC8413102.

Marketing Curriculum Guides Dissemination 2.
IL8413302.

Membership Requirements for IDECC (Continuation).
FL8413308.

Model Units for a Semester of Marketing and Distributive Education 1.
LA8413302.

Supermarket Operations.
SC8413307.

Marketng

Curriculum Guide for First Year General Marketing Program in the Secondary School Level.
GA8413307.

Marriage

Marriage and Family Life.
OK8413303.

Master-Plan

Illinois Plan for Industrial Education.
IL8413101.

Master-Plans

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

Mastery-Learning

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation).
PA8413315.

Material-Development

A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.
LA8413303.

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Auto and Electrical Trades Instructional Materials Development.
NJ8413307.

Basic Auto Body Construction.
OK8413306.

Business and Office Curriculum Update.
WA8413328.

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.
MO8413117.

Competency-based Welding Processes Videotapes.
MO8413116.

Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes.
IL8413103.

Computer Software for Forestry Technology Curricula.
WA8413324.

Computerized Numerical Control Turning Technician.
OK8413304.

Crops and Soils Curriculum Guide.
WA8413330.

Curriculum Development in Vocational Agriculture.
CA8413305.

Curriculum Development: Industrial Arts.
TX8413306.

Curriculum Development: Marketing and Distributive Education.
TX8413305.

Curriculum Development of Learning Activity Packets (LAPs)—Dental Assisting Program.
WA8413304.

Curriculum Development: Postsecondary Cosmetology Instructor Program Materials.
TX8413307.

Curriculum Development—Postsecondary Office Occupations Competency Tests.
TX8413302.

Curriculum Materials: Health Occupations.
TX8413309.

Dental Hygiene Instructional Videotape Development.
NJ8413308.

Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.
WA8413314.

Development, Adaptation, and Modification of Curriculum Materials for Limited English-speaking Students.
PA8413312.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders.
VA8413301.

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System.
WA8413326.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Competency-based Vocational Agriculture Instructional Materials for Handicapped Students Enrolled in Regular Agriculture Programs Other Than Horticulture.
PA8413308.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing.
VA8413312.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry.
VA8413303.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology.
VA8413304.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology).
VA8413311.

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care.
WA8413322.

Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest.
WA8413311.

Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Fundamentals of Carpentry.
OK8413302.

Health Services Careers (revised 1985).
OK8413310.

Illinois Core Curriculum in Agriculture Project.
IL8413301.

Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc.
WA8413318.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.
VA8413308.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Individualized/Mediated Curriculum Materials Development for Vocational Education.
MO8413303.

Industrial Cooperative Training Curriculum and Related Activities.
AR8413103.

Integrating Hydraulics Curriculum into Two-year Machine Shop Program.
MO8413114.

Introduction to Auto Body.
OK8413305.

Marketing.
OK8413307.

Marriage and Family Life.
OK8413303.

Microcomputer-based Instruction for Digital Electronics.
MO8413113.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Model Units for a Semester of Marketing and Distributive Education 1.
LA8413302.
North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.
Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.
Postsecondary Electromechanical Technology.
TX8413311.
Preparation of Basic Programing Language Editors.
WA8413313.
Preparation of Hewlett Packard-3000 Programing Language Editors.
WA8413312.
Principles of Technology.
OH8413302.
Programed Computer-assisted Basic Electronics.
WA8413331.
Proposal to Conduct Phase 5 of the Office Simulation Project.
GA8413301.
Relocate for Better Jobs.
NJ8413309.
Residential Carpentry (revised 1985).
OK8413309.
Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive.
WA8413305.
Revision and Development of Two Curriculum Guides for Vocational Agriculture.
WA8413329.
Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).
WA8413325.
Science Competencies of Health Occupations Courses.
NC8413114.
Scott County Computer Assisted Vocational Education Program.
TN8413203.
Technical Assistance and Staff Support Resources for Competency-based Vocational Education.
MA8413301.
The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.
Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).
OR8413311.
Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.
WA8413317.
Update Visual Media Technologies Program Graphics 1 to Include New Computer Graphics and Computer Typesetting Technologies.
WA8413315.
Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.
Vocational Agriculture 1 (revised 1984).
OK8413301.
Vocational Agriculture 2 (revised 1985).
OK8413308.
Vocational Education Curriculum Development.
MO8413301.
Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).
VA8413314.
Vocational Instructional Services: Vocational Agriculture and Vocational-Industrial Education Pre-employment Laboratory.
TX8413301.
Vocational-Technical Education Consortium of States (V-TECS) in Virginia.
VA8413104.
Ward Secretary Simulation Software Development.
WA8413316.
Word Processing Instructional Materials for the CPT.
MT8413301.

Materials and Processes Technology
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology.
VA8413304.

Mathematics
Broad-based Applied Technology Program for Secondary Schools.
KS8413202.
Coordination of Vocational and Academic Curricula.
OH8413102.
Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202).
AR8413202.
Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
KS8413203.
Math Competencies Taught in Secondary Vocational Education.
NC8413110.
Vocational Mathematics in Trade and Industrial Education.
SC8413304.

Mathematics-Achievement
The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills.
IL8413116.

Mathematics-Curriculum
Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202).
AR8413202.
Math Competencies Taught in Secondary Vocational Education.
NC8413110.
Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Mathematics-Education
Experimental Program in Computer Literacy: Adair County.
KY8413210.
Math Competencies Taught in Secondary Vocational Education.
NC8413110.
Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Mathematics-Instruction
Math Competencies Taught in Secondary Vocational Education.
NC8413110.
Project VOICE (Vocational Interpretation and Curriculum Enrichment) (Continuation).
TN8413206.
Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Mathematics-Skills
Individualized Instructional Assistance for Disadvantaged Students.
LA8413202.
Math Competencies Taught in Secondary Vocational Education.
NC8413110.
Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses.
NC8413113.
Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses.
NC8413112.
Vocational Education and Math: Curriculum Alignment Project.
NC8413108.

Matrices
Vocational Program Mapping and Follow-up Evaluation.
FL8413311.

Measurement-Techniques
Curriculum Development for Industrial Education Programs.
FL8413307.

Mechanical-Design-Technicians
High Technology Curriculum Development and Dissemination.
GA8413303.

Mechanical-Skills
Exemplary Project for Training and Placement of Displaced Workers.
AZ8413201.

Medical-Assistants
Competency-based Education Curriculum Revision/Upgrading.
WV8413314.
Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.
Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.
Curriculum Materials: Health Occupations.
TX8413309.

Medical-Laboratory-Assistants
Biomedical Equipment Technician Demonstration Program (Madisonville).
KY8413224.

Medical-Record-Technicians
Medical Records Technicial Program.
CO8413201.
Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies.
WA8413317.

Medical-Technologists
Allied Health Occupations 2—Curriculum Development Project.
CT8413301.

Mental-Health-Programs
Curriculum Materials: Health Occupations.
TX8413309.

Mentors
Entrepreneurship Training.
NJ8413209.

Merit-Rating
Curriculum Development for Industrial Education Programs.
FL8413307.

Metal-Working
Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.
LA8413303.
Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Metals
Advanced Technical Drafting, Advanced Metals, Advanced Woodworking.
LA8413303.

Methods
A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices.
MA8413303.

Microcomputers
A Computerized Instructional Program for the Child Care Industry.
TX8413210.
A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.
An Analysis of Vocational Teachers' Understandings and Attitudes toward Using Microcomputers in Vocational Education.
PA8413113.
Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.
Competency-based Computer-aided Drafting Curriculum for Vocational Drafting.
MO8413117.
Computer Applications for Special Needs Students.
NJ8413108.
Computer Training for the Adult Community.
KY8413206.
Computers in the Small-Scale Construction Trades Industry Applications and Education.
CA8413301.
Continuation of Job Related Physical Capacity (JRPC).
FL8413201.
Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.
Exemplary Software.
TN8413211.
Incorporating Microcomputers into Secretarial and Clerical Vocational Programs.
MO8413107.
Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.
Kansas Information/Word Processing Curriculum Guide Update.
KS8413302.
Microcomputer-based Instruction for Digital Electronics.
MO8413113.
Microcomputer Program Catalogs for Agriculture/Natural Resources.
CA8413302.
Microcomputers in Agricultural Education.
VA8413107.
Research Existing Curriculum Materials on Microcomputer Service and Repair and Adapt the Findings for a Kansas Curriculum Model.
KS8413101.
Scott County Computer Assisted Vocational Education Program.
TN8413203.
Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.
Teaching Keyboarding/Typewriting I with Microcomputers and Electric Typewriters.
LA8413206.
Using Microcomputers in Vocational Education To Teach Skills Needed in Agriculture.
WV8413307.
Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.
WV8413305.
Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking.
WV8413304.
Using Microcomputers in Vocational Education To Teach Skills Needed in Distribution and Marketing.
WV8413301.
Using Microcomputers in Vocational Education To Teach Skills Needed in Health
WV8413303.
Using Microcomputers in Vocational Education To Teach Skills Needed in Industrial Arts.
WV8413306.
Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial.
WV8413302.
Using Personal Computers to Promote Economic Development.
MT8413103.
Using the Microcomputer to Teach Keyboarding Skills.
VA8413108.
Word/Information Processing with Microcomputers in Business Education.
LA8413207.

Microelectronics
Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Microprocessors
Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2.
IL8413111.

Middle-Schools
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students.
CT8413305.

Migration
Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.
NY8413102.
The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Minicourses
Health Technologies Microcomputer Search and Orientation Project—Phase 2.
WA8413308.
Project BASICS—Building Attitudes and Skills for Improved Career Success.
TX8413208.
The Impaired Nurse: Development of Curriculum and Related Teaching Materials.
NJ8413301.

Minimum-Competencies
Curriculum Development, Refinement, and Testing of Performance Indicators for Selected Vocational Programs.
WA8413302.
Follow-up and Evaluation Project.
FL8413310.
Implementation of Submerged Arc Welding Training.
WA8413321.
Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Minimum-Competency-Testing
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413311.
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413307.
The Effectiveness of Competency Profiles.
OK8413101.

Mobile-Educational-Services
Vocational Information and Program Services (VIPS).
NM8413301.

Mobility
Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.
NY8413102.

Models
A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.
Advanced Placement.
WA8413102.
Articulation between Secondary and Postsecondary Vocational-Technical Education.
TN8413212.
Articulation—Phase I: Spokane Area Vocational Skills Center/Spokane Falls Community College, Development of a Model.
WA8413109.

Develop a Curriculum on Robot Service/Repair and Adapt Findings for a Kansas Curriculum Model.
KS8413102.

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Development and Validation of a Comprehensive Cost Allocation Model for Occupational Programs in the North Carolina Community College System.
NC8413106.

Development of a Competency-based Vocational Education Individualized Education Program (IEP) Model.
PA8413316.

Development of a Model Community College Centralized Unit for Job Development, Placement, and Data Monitoring.
NC8413102.

Development of a Model for Recruiting the New Community College Student.
NC8413103.

Development of a Model To Improve the Success Rate of Students in Selected Health Career Programs in the North Carolina Community College System.
NC8413101.

Diffusion Network Model.
FL8413102.

Follow-up and Evaluation Projects.
FL8413312.

Identification and Evaluation of Assessment Tools Used to Counsel Students.
CO8413202.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Open-entry/Open-exit Automotive Mechanics Program.
AR8413104.

Open-entry/Open-exit Drafting Technology Program.
AR8413105.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education.
NY8413101.

Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs.
FL8413111.

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Research Existing Curriculum Materials on Microcomputer Service and Repair and Adapt the Findings for a Kansas Curriculum Model.
KS8413101.

Research to Develop a Curriculum Continuum of Prevocational Skills.
TX8413110.

Statewide Respiratory Therapy Program Curriculum Development.
CA8413306.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Modern Industry

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry.
VA8413303.

Modules

Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
TN8413207.

Continuation of Job Related Physical Capacity (JRPC).
FL8413201.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Dissemination of 83-133-600-2(126-126) Individualized/Mediated Curriculum.
MO8413305.

Family Economics—Modules.
SC8413308.

Foods Modules.
SC8413309.

Health Occupations Education I (Revision).
SC8413310.

Individualized/Mediated Curriculum Materials Development for Vocational Education.
MO8413303.

Oregon Partnership Electronics Program.
OR8413302.

Prevocational Education Module Revision—Phase 3.
SC8413305.

Principles of Technology.
IL8413128.

Money-Management

Agricultural Curriculum Development.
WI8413302.

Multimedia-Instruction

Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2.
IL8413111.

Multiple-Disabilities

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Horticulture Opens Pathways to Employment.
NJ8413211.

National Longitudinal Surveys

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

National Network for Vocational Curriculum Dissemination

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials.
KS8413301.

Natural-Resources

Microcomputer Program Catalogs for Agriculture/Natural Resources.
CA8413302.

Natural-Sciences

An Identification of Science Competencies Taught in Secondary Vocational Agriculture.
NC8413115.

Needs

Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.

Needs-Assessment

An Assessment of Vocational Education in Massachusetts.
MA8413102.

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners.
PA8413112.

Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped.
NJ8413109.

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105).
WI8413101.

Colorado Marketing and Distributive Education Improvement Plan.
CO8413107.

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System.
LA8413102.

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.

High Technology Training Needs Assessment.
NJ8413101.

Industry Education Coordinator.
PA8413202.

Integration of Computer-related Instruction in Texas Vocational Agriculture Programs.
TX8413103.

Job Training: Development and Evaluation of an Assessment Procedure.
TN8413205.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

New Local Program Curriculum Development.
MI8413301.

Study of Employers' Views on Critical Issues Facing Vocational Education in Pennsylvania.
PA8413116.

The Role of Vocational Education in Productivity—Phase 1.
MO8413121.

Vocational Studies Center—Research Component (Continuation of WI8313104).
WY8413102.

Networks

Diffusion Network Model.
FL8413102.

Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments. KS8413103.

Job Training Development and Evaluation of an Assessment Procedure. TN8413205.

Project Career Reach. NJ8413204.

Newsletters

Center for Vocational, Technical, and Adult Education—XIII. Research Component (Continuation of WI8313105). WI8413101.

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317). PA8413313.

Development and Dissemination of Statewide Newsletter for Vocational Personnel Who Serve the Handicapped Students. PA8413311.

Newspapers

Dissemination, Utilization, and Program Awareness. KY8413223.

Noncredit-Courses

Competency-based Education Project. FL8413305.

Nontraditional-Occupations

Career Exploration for Women in Nontraditional Roles. WY8413303.

Promotion of Equity in Vocational Education. WY8413306.

Vocational Education—It's Worth a Second Look. WY8413309.

Women's Employment Resource Center (WERC) Support Services Handbook. CT8413102.

Numerical-Control

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.

Computerized Numerical Control Turning Technician. OK8413304.

Nursery-Workers-Horticulture

A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management. MA8413302.

Nurses

Allied Health Occupations 2—Curriculum Development Project. CT8413301.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program. PA8413106.

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders. VA8413301.

Health Technologies Microcomputer Search and Orientation Project—Phase 2. WA8413308.

Instruction in Intravenous Therapy. MT8413311.

Nurse Staffing Patterns and Implications for Training of Practical Nurses. OK8413103.

The Impaired Nurse: Development of Curriculum and Related Teaching Materials. NJ8413301.

Nurses-Aides

Competency-based Education Curriculum Revision/Upgrading. WV8413314.

Produce and Disseminate a Competency-based Curriculum for the Occupation of Geriatric Nursing Assistant. AZ8413301.

Nurses-Aids

Nurse Staffing Patterns and Implications for Training of Practical Nurses. OK8413103.

Nursing-Education

Allied Health Occupations 2—Curriculum Development Project. CT8413301.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program. PA8413106.

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders. VA8413301.

Development of Nursing Curriculum to Teach Computer Usage in Delivery of Patient Care. WA8413322.

Health Technologies Microcomputer Search and Orientation Project—Phase 2. WA8413308.

Instruction in Intravenous Therapy. MT8413311.

Nurse Staffing Patterns and Implications for Training of Practical Nurses. OK8413103.

Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing. WA8413107.

The Impaired Nurse: Development of Curriculum and Related Teaching Materials. NJ8413301.

Objective-Tests

Curriculum Development—Postsecondary Office Occupations Competency Tests. TX8413302.

Observation

Coordination of Special Evaluation Activities. FL8413117.

Implementing Competency-based Vocational Education (CBVE). PA8413307.

Occupational-Aspiration

Career Aspirations of Disadvantaged Students (Continuation of FSU3-2D31). FL8413202.

Hancock County Entrepreneurial Training Program. TN8413209.

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents. PA8413103.

Occupational-Clusters

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation). PA8413315.

Industry Panel Curriculum Project. OR8413309.

Review of the Vocational Cluster System. OR8413310.

Occupational-Home-Economics

Development and Implementation of Curriculum for Wage Earning Home Economics Programs. MT8413309.

From Issues to Action: Vocational Home Economics in Missouri. MO8413108.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education. VA8413307.

Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas. TX8413102.

Phase 5 Planning for the Development of Comprehensive, Sequential Vocational Home Economics Curriculum. IL8413303.

Time Allocation Study. OH8413301.

Using Microcomputers in Vocational Education To Teach Skills Needed in Consumer and Homemaking. WV8413304.

Vocational Education Consultants. NM8413303.

Occupational-Information

A Planning Process for Secondary Vocational Education. MT8413105.

Career Awareness Program. LA8413204.

Career Exploration for Women in Nontraditional Roles. WY8413303.

Career Exploration Software: Developing Practical Arts Experiences. KY8413207.

Competency-based Education Project. FL8413305.

Computer Training for the Adult Community. KY8413206.

Continuation of Job Related Physical Capacity (JRPC). FL8413201.

Curriculum Development—Occupational Orientation. TX8413310.

Development of a Competency-based Instruction Curriculum for Biotechnology. IL8413110.

Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services. WY8413307.

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School. WY8413304.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).
TX8413112.

Expanded FY 1984 Occupational Employment Statistics (OES) Research Project.
OH8413103.

Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
KS8413204.

High Technology Training Publication.
IL8413104.

Instructional Improvement.
PA8413306.

Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.

Project Career Reach.
NJ8413204.

Vocational Assessment Center for the Handicapped.
KY8413219.

Vocational Information Center Project.
IL8413113.

Vocational Information for Career Guidance.
WA8413101.

Work Analysis Specialist.
IN8413303.

Occupational-Mobility

Geographic Mobility of Postsecondary Occupational Education Completers and Leavers—Phase 2.
NY8413102.

Occupational Orientation

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).
TX8413112.

Occupational-Safety-and-Health

Occupational Hazards in a Business Office.
SC8413313.

Occupational-Surveys

Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates.
WY8413101.

High Technology Training Needs Assessment.
NJ8413101.

Regional Job Title for Classified Students.
NJ8413203.

Robotics Program Feasibility Study.
NJ8413105.

Vocational Individual Proficiencies (VIP).
NJ8413104.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician.
PA8413302.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician.
PA8413309.

Occupations

Occupational Status as Perceived by Vocational Education Students.
KY8413208.

Office-Machines

Occupational Hazards in a Business Office.
SC8413313.

Office-Occupations-Education

An Evaluation of Business Teacher Education in Connecticut.
CT8413104.

Articulation Research of Business and Office Education.
MT8413101.

Business and Office Curriculum Update.
WA8413328.

Business Office Skills Development.
CT8413203.

Competency-based Instruction for the Modern Office/Word Processing Technology.
MO8413105.

Curriculum Development—Postsecondary Office Occupations Competency Tests.
TX8413302.

Curriculum Development—Vocational Office Education.
TX8413303.

Incorporating Microcomputers into Secretarial and Clerical Vocational Programs.
MO8413107.

Integration of an Information Processing Center into a Modern/Office Word Processing Technology Course.
MO8413106.

Phase 1 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413111.

Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413126.

Prevocational Business and Office Competency-based Education Curriculum Revision.
WV8413311.

Proposal to Conduct Phase 5 of the Office Simulation Project.
GA8413301.

Special Services for Handicapped Students.
NJ8413102.

Telecommunications.
WA8413334.

The Fourth Basic: Computer Skills.
KY8413204.

Update of the Secondary Vocational Office Education Data Processing Curriculum.
TX8413108.

Using Microcomputers in Vocational Education To Teach Skills Needed in Business and Office.
WV8413305.

Word and Data Processing Postsecondary Demonstration Program (Harlan).
KY8413225.

Ohio Work Values Inventory

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

Older-Adults

Phase 5 Planning for the Development of Comprehensive, Sequential Vocational Home Economics Curriculum.
IL8413303.

On-The-Job-Training

Work Analysis Specialist.
IN8413303.

Online-Systems

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).
FL8413302.

Open Entry Open Exit

Development of an Electronics Technician Core Curriculum.
AZ8413302.

Open-entry/Open-exit Automotive Mechanics Program.
AR8413104.

Open-entry/Open-exit Drafting Technology Program.
AR8413105.

Optics

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Oral-History

Context Evaluation and Status Study of Vocational Education in Florida (Continuation).
FL8313110.

Organizational-Communication

Industry/Education Coordinator.
PA8413203.

Organizational-Effectiveness

Advisory Committees/Councils Effectiveness.
KY8413212.

Orientation

Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation).
TN8413207.

Allied Health Occupations 2—Curriculum Development Project.
CT8413301.

Illinois Plan for Industrial Education.
IL8413101.

Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.

Orientation-Materials

Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes.
IL8413103.

Ornamental-Horticulture

A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management.
MA8413302.

Oscilloscopes

Introduction into Use of Oscilloscope.
OR8413306.

Outcomes-of-Education

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Outlines

Curriculum Development—Summer 1983.
CT8413302.

Outreach-Programs

Vocational Assessment Center for the Handicapped.
KY8413219.

Overage Students
Pivot A Lift: PAL. KY8413209.

Pacing
Curriculum Development: Vocational Industrial Education Cooperative Training. TX8413308.
Personal Finances for Adult Students. KY8413203.

Pamphlets
Leadership Development Program in Vocational Special Needs Education. IL8413119.
Project Civil Rights. WY8413310.
Vocational Improvement Practices (VIP) (Continuation of CT8313207). CT8413206.
Vocational Information for Career Guidance. WA8413101.
Vocational-Technical Information Program. TN8413213.

Paraprofessional-Personnel
Child Development Program. NM8413201.
Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System. WA8413326.
Fiber Optics Communications Technology. TX8413107.

Parent-Participation
Academically Able Exploring Vocations in Emerging and New Technologies (AA-EVENT) (Continuation). TN8413207.

Parent-School-Relationship
Five County Regional Vocational System: Regional Communications Model. IL8413121.

Patient Advocate
A Study To Identify Competencies Performed by Patient Advocates/Representatives in the Health Care Setting. MO8413101.

Peer-Influence
Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations. HI8413101.

Peer-Teaching
Project Pacer (Peer-Assisted Computer Exposure and Remediation). NJ8413205.
The Fourth Basic: Computer Skills. KY8413204.

Perception
Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions. CO8413105.

Perceptual-Motor-Learning
Research to Develop a Curriculum Continuum of Prevocational Skills. TX8413110.

Performance
An Identification of Science Competencies Taught in Secondary Vocational Agriculture. NC8413115.
Innovative Vocational Education Delivery System. IL8413109.

Performance-Tests
Curriculum Development—Postsecondary Office Occupations Competency Tests. TX8413302.
Develop Competency-based Curriculum for New Course—Electronics for Camera Repair. WA8413314.
Performance Testing in Electronic Technology. WA8413108.
The Development and Implementation of a Competency Certificate System for Arkansas Vocational and Technical Programs (Continuation of AR8313209). AR8413203.
The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills. IL8413116.

Photographic-Equipment
Develop Competency-based Curriculum for New Course—Electronics for Camera Repair. WA8413314.

Physical-Disabilities
Continuation of Job Related Physical Capacity (JRPC). FL8413201.

Physical-Therapy-Aides
Allied Health Occupations 2—Curriculum Development Project. CT8413301.

Physics
Broad-based Applied Technology Program for Secondary Schools. KS8413202.

Pilot-Projects
A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel. FL8413108.
An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.
Articulation between Secondary and Postsecondary Vocational-Technical Education. TN8413212.
Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105). AR8413101.
Developing and Piloting a Microcomputer Keyboarding Curriculum for Middle and Junior High School Students. CT8413305.
Development and Implementation of a Pilot Community College Presidents Institute as a Model for Leadership Renewal. NC8413107.
Farm Business Management and Energy Conservation Adult Programs. VA8413105.
Medical Records Technicial Program. CO8413201.
Research and Experimentation in Applied Learning. NJ8413107.
The Computer in the Workplace: A Core Computer Course for All Current and Potential Workers. AZ8413202.
The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools. TN8413202.

Pilot-Tests
Methodology for Computer Skills Improvement in Vocational Secondary Programs. OR8413201.

Planning Books
Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach. PA8413102.

Plumbing
Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide. SC8413301.

Policy-Formation
Context Evaluation and Status Study of Vocational Education in Florida (Continuation). FL8313110.
Special Studies for Florida Vocational Education (Continuation). FL8413103.

Position-Papers
Provisions for Research Associate (Continuation). FL8413105.
Special Studies for Florida Vocational Education (Continuation). FL8413103.
Update of the Industrial Arts Rationale in Texas. TX8413104.

Power-Technology
Feasibility Study to Assess Alternative Energy Program Development Potential at the Community College Level. IL8413106.
Open-entry/Open-exit Automotive Mechanics Program. AR8413104.

Practical-Nursing
Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders. VA8413301.
Discussion Time: A Developmental Project to Facilitate the Socialization of Associate Degree Nursing Students. MO8413110.
Instruction in Intravenous Therapy. MT8413311.
Licensed Practical Nursing—Training Assistance for Disadvantaged Students. LA8413203.
Nurse Staffing Patterns and Implications for Training of Practical Nurses. OK8413103.
The Impaired Nurse: Development of Curriculum and Related Teaching Materials. NJ8413301.

Preservice-Teacher-Education

An Evaluation of Business Teacher Education in Connecticut.
CT8413104.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana.
LA8413103.

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).
TX8413112.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education.
LA8413101.

Prestige

Occupational Status as Perceived by Vocational Education Students.
KY8413208.

Pretests-Posttests

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners.
PA8413112.

Prevocational-Education

Field-test Techniques and Methods of Incorporating Prevocational Exploratory Models into Statewide District Curricula.
KS8413204.

Prevocational Business and Office Competency-based Education Curriculum Revision.
WV8413311.

Prevocational Education Module Revision—Phase 3.
SC8413305.

Research to Develop a Curriculum Continuum of Prevocational Skills.
TX8413110.

Problem-Solving

Computer Assisted Instruction in Feeds and Feeding.
MT8413305.

Problems

A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.

Career Aspirations of Disadvantaged Students (Continuation of FSU3-2D31).
FL8413202.

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Women Apprentices in Hawaii: Characteristics of Females Registered with Pearl Harbor Naval Shipyard and the Hawaii State Department of Labor and Industrial Relations.
HI8413101.

Production Technology

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs.
TX8413206.

Productivity

Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Continuing Research in Determining Economic Returns on Investment in Selected Occupational Education Programs at Postsecondary Institutions.
NY8413105.

Curriculum Development—Occupational Orientation.
TX8413310.

The Role of Vocational Education in Productivity—Phase 1.
MO8413121.

The Role of Vocational Education in Productivity—Phase 1.
MO8413127.

Professional-Development

Development of Professional Instructional Materials for Vocational Education Administrators.
FL8413107.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).
TX8413112.

Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).
PA8413320.

Promoting Student Achievement.
CA8413303.

Professional-Organizations

Interstate Distributive Education Curriculum Consortium (IDECC) Membership Fee (Continuation of PA8313302).
PA8413320.

Profiles

Career Passport Experience Profile Guide.
KY8413202.

Curriculum Development: Vocational Industrial Education Cooperative Training.
TX8413308.

Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.
TX8413312.

Curriculum Development—Vocational Office Education.
TX8413303.

The Effectiveness of Competency Profiles.
OK8413101.

Program-Administration

Development of Administrative Guidelines for Virginia Practical Nursing in Program Leaders.
VA8413301.

Occupational Education Programs at Community Colleges of the City University of New York (Continuation).
NY8413106.

Program-Budgeting

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.
CO8413102.

Program-Content

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan.
IL8413118.

Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101).
LA8413104.

Development and Implementation of a Computerized Vocational Inservice Needs Assessment System.
LA8413102.

Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments.
KS8413103.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education.
LA8413101.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.
WA8413111.

Program-Costs

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.
CO8413102.

Cost Effectiveness of Computer Assisted Instruction.
AZ8413102.

High School and Beyond Longitudinal Study—Augmentation.
IL8413113.

Program-Descriptions

Dissemination, Utilization, and Program Awareness.
KY8413223.

Program-Design

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan.
IL8413118.

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

The Role of Vocational Education in Productivity—Phase 1.
MO8413127.

Program-Development

Adult and Postsecondary Developmental Initiatives.
PA8413204.

An Application of Computer Graphics Curriculum to Selected Vocational-Technical Programs.
TX8413201.

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Biomedical Equipment Technician Demonstration Program (Madisonville).
KY8413224.

Business and Industry-based Instruction Developed by Community Colleges in Illinois.
IL8413105.

California Vocational Education Program for Compliance with the Office for Civil Rights Guidelines for Eliminating Discrimination and Denial of Services Based on Race, Color, National Origin, Sex, or Handicap.
CA8413103.

Career Awareness Program. LA8413204.

Career Speech Development. NJ8413201.

Child Development Program. NM8413201.

Competency-based Curriculum Development. PA8413305.

Comprehensive Planning for Competency-based Vocational Education (CBVE) Implementation—Teacher Education and School Programs. FL8413116.

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305). PA8413314.

Continuation of Job Related Physical Capacity (JRPC). FL8413201.

Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair. KS8413205.

Curriculum Planning for Oral and Maxillofacial Surgery Assistant Program. MO8413112.

Design of a Health Occupations Magnet Program in the Rio Grande Valley. TX8413105.

Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202). AR8413202.

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation). PA8413315.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana. LA8413103.

Development of a Model for Technical Updating of Vocational Teachers in Florida. FL8413114.

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System. WA8413326.

English as a Second Language, Basic Skills, and Careers Program. NJ8413208.

Expanding the Respiratory Therapy Curriculum. WA8413320.

Farm Business Management and Energy Conservation Adult Programs. VA8413105.

Feasibility Study to Assess Alternative Energy Program Development Potential at the Community College Level. IL8413106.

Follow-up and Evaluation Project. FL8413310.

Follow-up and Evaluation Projects. FL8413312.

High Technology Curriculum Development and Dissemination. GA8413303.

Horticulture Opens Pathways to Employment. NJ8413211.

Horticulture Training. NJ8413210.

Incorporating Microcomputers into Secretarial and Clerical Vocational Programs. MO8413107.

Intensive Business Program. CT8413204.

Job Training Consortium Program—Industry/Education Coordinator. PA8413205.

Kansas Competency-based Vocational Education Project—FY 1984. KS8413303.

Middlesex Consortium: Vocational Education. CT8413202.

Occupational Curriculum Model for Home Economics Teacher Education Programs in Texas. TX8413102.

Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs. FL8413111.

Postsecondary/High Technology: Program and Vocational School Model Development. KY8413221.

Program Guide for Data Processing Occupations. FL8413306.

Program Guide for Word Processing Occupations. FL8413304.

Provide Articulation of the Resources of Secondary School, Area Vocational-Technical School, Community College, Hospital, and Business to Provide Training in High Technology. KS8413201.

Provisions for Research Associate (Continuation). FL8413105.

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators. IL8413122.

Research and Development for a Course in Ethics in Nursing Practice for Community College Associate Degree Nursing. WA8413107.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103). VA8413102.

Special Studies for Florida Vocational Education (Continuation). FL8413103.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education. MT8413203.

The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools. TN8413202.

Vocational Program Mapping and Follow-up Evaluation. FL8413311.

Program-Effectiveness

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan. IL8413118.

Assessment of the Impact of the Bureau of Vocational Education's Program for Disadvantaged Populations in Pennsylvania. PA8413107.

Computer Applications for Special Needs Students. NJ8413108.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO). TX8413112.

Identification and Evaluation of Assessment Tools Used to Counsel Students. CO8413202.

Long Range Follow-up of Students Enrolled in Cherry Creek District Vocational Education Programs. CO8413106.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education. NY8413101.

Project Follow-up. WA8413105.

Third Party Evaluation of Florida Education Information Service (FEIS). FL8413119.

Program-Evaluation

A Multidisciplinary Research Team Approach to Computer-aided Drafting (CAD) System Selection. MO8413124.

A Third-Party Evaluation to Assess the Impact of the Quality Assistance Plan. IL8413118.

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners. PA8413112.

Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program. PA8413106.

Assessment of the Impact of the Bureau of Vocational Education's Program for Disadvantaged Populations in Pennsylvania. PA8413107.

Assessment of the Impact of the Bureau of Vocational Education's Program for Displaced Homemakers. PA8413114.

Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania. PA8413118.

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105). WI8413101.

Coordination of Special Evaluation Activities. FL8413117.

Developing a Master Plan for Improving Competency-based Vocational Education. FL8413109.

Evaluation Review. CA8413106.

Exemplary Software. TN8413211.

Feasibility of Utilizing Placement Rate Concept in Vocational Education. CA8413105.

First-Year Impact of Customized Job Training Program. PA8413108.

Follow-up and Evaluation Projects. FL8413312.

Follow-up Evaluation Project. FL8413112.

Hancock County Entrepreneurial Training Program. TN8413209.

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Long Range Follow-up of Students Enrolled in Cherry Creek District Vocational Education Programs.
CO8413106.

Phase 2—Assessment of Effectiveness: Developmental Programs in Postsecondary Occupational Education.
NY8413101.

Skills and Proficiency Levels Necessary for Entry-level Employment for All Vocational Programs Using Computers To Process Data.
WA8413111.

Statewide Evaluation of Vocational Education's Consumer and Homemaking Programs.
PA8413109.

Third Party Evaluation of Florida Education Information Service (FEIS).
FL8413119.

Third Party Evaluation of Program Improvement Projects.
CA8413104.

Program-Guides

Curriculum Development for Industrial Education Programs.
FL8413307.

Program Guide for Data Processing Occupations.
FL8413306.

Program Guide for Word Processing Occupations.
FL8413304.

Program-Implementation

Analysis of the Funding Needs and Identification of Alternative Methods for Postsecondary Funding.
CO8413102.

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.
MN8413102.

Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105).
VA8413103.

Automated Management and Instructional Support for Special Needs Students.
LA8413201.

Competency-based Curriculum Development.
PA8413305.

Competency-based Education Project.
FL8413305.

Competency-based Vocational Education (CBVE) Curriculum Development and Implementation—Five-year Plan.
PA8413310.

Continuation of a Program to Develop Competency-based Vocational Education in the Two Area Vocational-Technical Schools of Chester County.
PA8413304.

Coordination of Special Evaluation Activities.
FL8413117.

Curriculum Publications Clearinghouse.
IL8413303.

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

Development and Implementation of Competency-based Curricula for Dauphin County Area Vocational-Technical School (Continuation).
PA8413315.

Dropout Prevention in Hart County.
KY8413218.

Farm Business Management and Energy Conservation Adult Programs.
VA8413105.

Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.
PA8413317.

Identification and Description of Barriers for the Implementation of Competency-based Vocational Education.
FL8413113.

Illinois Plan for Industrial Education.
IL8413101.

Implementation of Submerged Arc Welding Training.
WA8413321.

Implementing Competency-based Vocational Education (CBVE).
PA8413307.

Industrial Arts Communications Curriculum Guide Workshop.
NM8413302.

Instructional Guides for Fundamentals of Marketing Occupation and Marketing Distribution.
FL8413309.

Intensive Business Program.
CT8413204.

Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.

Open-entry/Open-exit Automotive Mechanics Program.
AR8413104.

Open-entry/Open-exit Drafting Technology Program.
AR8413105.

Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum.
MO8413126.

Secondary Health Occupations Health Assistant/Respiratory Therapy Aide Program (Continuation of VA8313103).
VA8413102.

Shawnee-Detrick Academic/Vocational Project.
KY8413230.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System.
PA8413319.

The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools.
TN8413202.

Vocational Assessment Consortium: Bluegrass Area.
KY8413214.

Program-Improvement

Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.

Third Party Evaluation of Program Improvement Projects.
CA8413104.

Program-Length

Expanding the Respiratory Therapy Curriculum.
WA8413320.

Program-Proposals

Provisions for Research Associate (Continuation).
FL8413105.

Program-Validation

Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.
TX8413204.

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs.
FL8413111.

Programing

An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM).
NJ8413306.

Preparation of Basic Programing Language Editors.
WA8413313.

Preparation of Hewlett Packard-3000 Programing Language Editors.
WA8413312.

Promising Practices

Promising Practices Diffusion.
OR8413202.

Pronunciation-Instruction

Career Speech Development.
NJ8413201.

Proposal-Writing

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Vocational Studies Center—Research Component (Continuation of WI8313104).
WY8413102.

Prototypes

Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses.
NC8413113.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses.
NC8413112.

Public-Policy

Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

Public-Relations

A Presentation of Secondary Vocational Education in Georgia.
GA8413211.

Dissemination, Utilization, and Program Awareness.
KY8413223.

Five County Regional Vocational System: Regional Communications Model.
IL8413121.

Public-Relationships

Statewide Cooperative Education Videotape.
OR8413301.

Public-Schools
Cost Effectiveness of Computer Assisted Instruction.
AZ8413102.

Public Service Advertising
Statewide Cooperative Education Videotape.
OR8413301.

Publications
Curriculum Publications Clearinghouse.
IL8413305.
High Technology Training Publication.
IL8413104.
Kansas Occupational Information System.
KS8413104.

Publicity
A Presentation of Secondary Vocational Education in Georgia.
GA8413211.
Developing the Marketing of the Adult College Reentry Network at Mineral Area College (Continuation of MO8313111).
MO8413123.
Dissemination, Utilization, and Program Awareness.
KY8413223.
From Issues to Action: Vocational Home Economics in Missouri.
MO8413108.
Job Training Consortium Program—Industry/Education Coordinator.
PA8413205.
Showcase '84: Statewide Dissemination and Utilization for Postsecondary Occupational Education.
NY8413104.
Vocational Education Consultants.
NM8413303.
Vocational Education Curriculum Development Satellite Project (Continuation of VA8313308).
VA8413314.

Purchasing
Career Exploration for Women in Nontraditional Roles.
WY8413303.
Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services.
WY8413307.
Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School.
WY8413304.
Scott County Computer Assisted Vocational Education Program.
TN8413203.

Quality Circles
Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.

Questionnaires
Assessment of the Impact of the Bureau of Vocational Education's Practical Nurse Program.
PA8413106.
High School and Beyond Longitudinal Study—Augmentation.
IL8413113.
The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

Radio
Dissemination, Utilization, and Program Awareness.
KY8413223.

Radiologic-Technologists
A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.
Allied Health Occupations 2—Curriculum Development Project.
CT8413301.

Ranching
Cattle Rancher—Sequenced Catalog.
SC8413315.

Reading-Skills
Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices.
KS8413203.
Individualized Instructional Assistance for Disadvantaged Students.
LA8413202.

Recordkeeping
Curriculum Materials: Health Occupations.
TX8413309.
Development of an Instructional Unit for the New Computer-compatible Record Book.
PA8413111.
The Development of a Computer-compatible Supervised Occupational Experience (SOE) Record System for Vocational Agriculture.
PA8413303.

Reference-Materials
'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Reference-Services
Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).
FL8413302.

Refrigeration
Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.

Refrigeration-Mechanics
Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.

Regional-Planning
Comprehensive Region I System for Planning and Coordinating Vocational Education.
IN8413202.
Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.
Regional Planning Study for Vocational Education in Region 12.
IN8413203.

Regional-Programs
Advisory Committees/Councils Effectiveness.
KY8413212.
Comprehensive Region I System for Planning and Coordinating Vocational Education.
IN8413202.
Developing a Model Vocational Agriculture Curriculum for High Schools in North Central Washington.
WA8413333.
Inter-District Enrollment Project.
CT8413201.
Regional Planning Study for Vocational Education in Region 12.
IN8413203.

Related Instruction
State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.
Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).
OR8413311.
Updating Vocational Agricultural Curriculum Resource Units.
MT8413307.

Relevance-Education
Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments.
KS8413103.
Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs.
TX8413111.
Standardized Procedures for Follow-Up Assessment.
IL8413124.

Relocation
A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.
Relocate for Better Jobs.
NJ8413309.

Remedial-Instruction
Learning Center Demonstration Program for Vocational Education (Daviess County).
KY8413228.
Shawnee-Detrick Academic/Vocational Project.
KY8413230.
The Fourth Basic: Computer Skills.
KY8413204.

Remedial-Programs
Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.
Project Pacer (Peer-Assisted Computer Exposure and Remediation).
NJ8413205.
Research and Experimentation in Applied Learning.
NJ8413107.

Repair
Develop Competency-based Curriculum for New Course—Electronics for Camera Repair.
WA8413314.

Replication

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Research

Center for Vocational, Technical, and Adult Education—XIII: Research Component (Continuation of WI8313105).
WI8413101.

The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents.
PA8413103.

Vocational Studies Center—Research Component (Continuation of WI8313104).
WY8413102.

Research-and-Development

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.
MN8413102.

Vocational Studies Center—Research Component (Continuation of WI8313104).
WY8413102.

Research-and-Development-Centers

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.
MN8413102.

Research-Design

Research to Develop Basic Skills Proficiencies for Limited-English-proficiency (LEP) and English as a Second Language (ESL) Students in Vocational Education.
TX8413106.

Research-Methodology

Expanded FY 1984 Occupational Employment Statistics (OES) Research Project.
OH8413103.

Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Research-Needs

Provisions for Research Associate (Continuation).
FL8413105.

Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education.
AZ8413101.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Research-Projects

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

Concurrent Validity Research on Vocational Assessment of the Physically Handicapped.
NJ8413106.

Evaluation of a Low-cost Computerized Analysis and Ration Formulation System.
PA8413105.

Occupational Status as Perceived by Vocational Education Students.
KY8413208.

Research-Reports

An Assessment of Vocational Education in Massachusetts.
MA8413102.

Evaluate the Effectiveness of the Occupational Orientation Programs (RIO).
TX8413112.

Home and Family Life Education Program Analysis.
WA8413106.

Project Link.
CT8413101.

Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory.
PA8413119.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Resource-Allocation

Development of a Model for Recruiting the New Community College Student.
NC8413103.

Resource-Centers

Articulation between Secondary and Postsecondary Vocational-Technical Education.
TN8413212.

Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.

Dropout Prevention in Hart County.
KY8413218.

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).
FL8413302.

Nebraska Vocational Curriculum Resource Center Catalog.
NE8413302.

Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Program Development and Dissemination.
MI8413302.

Project Career Reach.
NJ8413204.

Resource Center.
MO8413302.

Vocational Studies Center—Curriculum Dissemination Component (Continuation of WI8313302).
WI8413301.

Resource-Materials

Career Exploration for Women in Nontraditional Roles.
WY8413303.

Career Exploration Software: Developing Practical Arts Experiences.
KY8413207.

Cosmetology—Vocational Education Consortium of States (V-TECS) Guide.
SC8413302.

Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services.
WY8413307.

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School.
WY8413304.

Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses.
VA8413305.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing.
VA8413312.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology).
VA8413311.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology.
VA8413304.

Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry.
VA8413303.

Florida Educational Information Service (Continuation of FSU 2-1E12 and FSU 2-1E11).
FL8413302.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.
VA8413308.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413303.

Maryland Vocational Curriculum Research and Development Center (Continuation).
MD8413301.

Microcomputer Applications: An Impact for Local Vocational Programs.
IL8413107.

Nebraska Vocational Curriculum Resource Center Catalog.
NE8413302.

Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide.
SC8413301.

Promotion of Equity in Vocational Education.
WY8413306.

Relocate for Better Jobs.
NJ8413309.

Updating Montana Curriculum Guidelines for Distributive Education.
MT8413303.

Vocational Information and Program Services (VIPS).
NM8413301.

Vocational Support Services Project.
TN8413201.

Resource-Units

Vocational and Occupational Information Center for Educators (VOICE) Dissemination System Service.
CA8413101.

Retailing

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Retraining

A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.

Development of a Secondary-level Robotics Operation and Repair Curriculum.
CT8413303.

High Technology Training Needs Assessment.
NJ8413101.

Medical Records Technicial Program.
CO8413201.

Project TRADE: Teacher Retraining and Directed Exchange.
OH8413101.

Provide Articulation of the Resources of Secondary School, Area Vocational-Technical School, Community College, Hospital, and Business to Provide Training in High Technology.
KS8413201.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.

Review-Reexamination

Industry Panel Curriculum Project.
OR8413309.

Revision-Written-Composition

Industry Panel Curriculum Project.
OR8413309.

Robotics

Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College.
TX8413202.

Development of a Secondary-level Robotics Operation and Repair Curriculum.
CT8413303.

Introduction to Robotics Curriculum.
MO8413115.

Robotics in Industrial Arts.
LA8413205.

Robotics Program Feasibility Study.
NJ8413105.

Understanding Robotics.
NJ8413304.

Vocational Technical Educaton Consortium of States (V-TECS) Catalog Development: Electromechanical (Robotics) Technician.
PA8413309.

Robots

Develop a Curriculum on Robot Service/Repair and Adapt Findings for a Kansas Curriculum Model.
KS8413102.

Role-Models

Development of a Model Role for the Area Vocational-Technical School Counselor.
MO8413109.

Using Handicapped Workers as Career Role Models in Career Development.
NJ8413206.

Rural-Schools

Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.

Vocational Information and Program Services (VIPS).
NM8413301.

Safety-Education

Occupational Hazards in a Business Office.
SC8413313.

Sales-Workers

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Salesmanship

Salesmanship.
SC8413306.

Satellite-Facilities

Curriculum Development—Summer 1983.
CT8413302.

School-Activities

Correlation of Student and Teacher Perceptions of Consumer and Homemaking Tasks Needed and Taught (Continuation of LA8313101).
LA8413104.

School-Business-Relationship

A Demonstration Model for Meeting the Needs of Displaced Workers.
CO8413101.

Adult and Postsecondary Developmental Initiatives.
PA8413204.

Articulation Project in Engineering Technology Career Awareness.
TN8413210.

Business and Industry-based Instruction Developed by Community Colleges in Illinois.
IL8413105.

Business Office Skills Development.
CT8413203.

Chicago Coalition—Education/Training Employment.
IL8413117.

Community College Employer Satisfaction Survey.
MA8413101.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.

Determining Entry-level Competencies Required by Wyoming Business and Industry of Wyoming Business Education High School Graduates.
WY8413101.

Development of a Competency-based Instruction Curriculum for Biotechnology.
IL8413110.

Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments.
KS8413103.

Five County Regional Vocational System: Regional Communications Model.
IL8413121.

Follow-up Evaluation Project.
FL8413112.

High Technology Internship.
TX8413205.

High Technology Training Needs Assessment.
NJ8413101.

Identification of Electronics Competencies in Vocational Programs.
WA8413110.

Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc.
WA8413318.

Industry/Education Coordinator.
PA8413203.

Industry/Education Coordinator.
PA8413202.

Industry/Education Coordinator.
PA8413201.

Industry Panel Curriculum Project.
OR8413309.

Intensive Business Program.
CT8413204.

Job Training Consortium Program—Industry/Education Coordinator.
PA8413205.

Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Project Link.
CT8413101.
Project TRADE: Teacher Retraining and Directed Exchange.
OH8413101.
Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.
Review of the Vocational Cluster System.
OR8413310.
Robotics Program Feasibility Study.
NJ8413105.
Survey of Collaborative Efforts between Schools/Business/Industry/Labor.
OR8413101.
The Effectiveness of Competency Profiles.
OK8413101.
The Role of Vocational Education in Productivity—Phase 1.
MO8413127.
Vocational Individual Proficiencies (VIP).
NJ8413104.
Vocational Support Services Project.
TN8413201.
Work Analysis Specialist.
IN8413303.
Working Together: Employers and Educators.
CT8413205.

School-Community-Relationship
Five County Regional Vocational System: Regional Communications Model.
IL8413121.
Getting to the Public for a Hearing.
MO8413102.
Project Career Reach.
NJ8413204.

School-Counselors
Development of a Model Role for the Area Vocational-Technical School Counselor.
MO8413109.
Identification and Evaluation of Assessment Tools Used to Counsel Students.
CO8413202.
Microcomputers in Secondary Guidance and Counseling.
GA8413202.
Microcomputers in Secondary Guidance and Counseling.
GA8413210.
Microcomputers in Secondary Guidance and Counseling.
GA8413205.
Microcomputers in Secondary Guidance and Counseling.
GA8413206.
Microcomputers in Secondary Guidance and Counseling.
GA8413207.
Microcomputers in Secondary Guidance and Counseling.
GA8413201.
Microcomputers in Secondary Guidance and Counseling.
GA8413203.
Microcomputers in Secondary Guidance and Counseling.
GA8413204.
Microcomputers in Secondary Guidance and Counseling.
GA8413208.
Microcomputers in Secondary Guidance and Counseling.
GA8413209.

School-Districts
Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.
Design of a Health Occupations Magnet Program in the Rio Grande Valley.
TX8413105.
Feasibility Study, Regional Planning, and Initiation of a Regional Approach to Offering Vocational and Technical Education in Douglas County.
OR8413102.
Five-Year Plan for Implementing Competency-based Vocational Education—1980-1985.
PA8413317.
Inter-District Enrollment Project.
CT8413201.
Leadership Development Program in Vocational Special Needs Education.
IL8413119.

School-Funds
Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.
Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.
Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.
Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.
Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.
Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.
Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.
Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.
Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.
Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

School-Holding-Power
The Identification of Recruitment Barriers to Vocational Training Programs as Perceived by Students, Teachers, Counselors and Administrators in Selected Florida Schools.
FL8413101.

School-Policy
Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

School-Role
Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions.
CO8413105.
Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

The Northern Illinois Management Model for Employment Training and Economic Development.
IL8413123.
The Role of Vocational Education in Productivity—Phase 1.
MO8413121.
Vocational Education's Role(s) in Economic Revitalization—Phase 2.
IL8413126.

School-Shops
Integrating Hydraulics Curriculum into Two-year Machine Shop Program.
MO8413114.

School-Surveys
An Assessment of Vocational Education in Massachusetts.
MA8413102.
Cost Effectiveness of Computer Assisted Instruction.
AZ8413102.
Feasibility Study: Stevens County Vocational Skills Center.
WA8413103.
Unity for a Quality Vocational Delivery System in the Metropolitan Nashville Community.
TN8413208.

School-Visitation
Implementing Competency-based Vocational Education (CBVE).
PA8413307.

Science-Careers
Broad-based Applied Technology Program for Secondary Schools.
KS8413202.

Science-Curriculum
Science Competencies of Health Occupations Courses.
NC8413114.
Science Competencies Taught in Secondary Vocational Education.
NC8413111.
Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Science-Education
Coordination of Vocational and Academic Curricula.
OH8413102.
Science Competencies of Health Occupations Courses.
NC8413114.
Science Competencies Taught in Secondary Vocational Education.
NC8413111.
Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Science-Instruction
Science Competencies of Health Occupations Courses.
NC8413114.
Science Competencies Taught in Secondary Vocational Education.
NC8413111.
Vocational Education and Science: Curriculum Alignment Project.
NC8413109.

Sciences
Science Competencies of Health Occupations Courses. NC8413114.
Science Competencies Taught in Secondary Vocational Education. NC8413111.
Vocational Education and Science: Curriculum Alignment Project. NC8413109.

Scientific-Concepts
An Identification of Science Competencies Taught in Secondary Vocational Agriculture. NC8413115.
Principles of Technology. OH8413302.

Scientific-Principles
Integrating Hydraulics Curriculum into Two-year Machine Shop Program. MO8413114.
Principles of Technology. OH8413302.

Scripts
Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes. WA8413323.

Search-Strategies
Third Party Evaluation of Florida Education Information Service (FEIS). FL8413119.

Second-Language-Instruction
Career Speech Development. NJ8413201.
North Central Washington Spanish Instruction Modules for Business Occupations. WA8413310.

Secondary-School-Students
'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317). PA8413313.
Development, Adaptation, and Modification of Curriculum Materials for Limited English-speaking Students. PA8413312.
Development and Dissemination of Statewide Newsletter for Vocational Personnel Who Serve the Handicapped Students. PA8413311.
Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316). PA8413318.
Training Alternatives for Handicapped Students in Vocational Education Programs. VA8413101.

Secondary-School-Teachers
Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.

Secondary-Schools
Articulation and Coordination of the Implementation of Competency-based Education in Secondary Vocational Education Programs in Virginia (Continuation of VA8313105). VA8413103.

Secretaries
Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide. IL8413306.
Ward Secretary Simulation Software Development. WA8413316.

Selection
Home and Family Life Education Program Analysis. WA8413106.

Self-Concept
Pivot A Lift: PAL. KY8413209.
Standardized Procedures for Follow-Up Assessment. IL8413124.

Self Efficacy Theory
Self-efficacy in the Career Development of Women Based on the Educational Quality Assessment Inventory. PA8413119.

Sequential-Approach
Cattle Rancher—Sequenced Catalog. SC8413315.
Computer Operator—Sequenced Catalog. SC8413312.
Data Entry Operators—Sequenced Catalog. SC8413311.
Expanding the Respiratory Therapy Curriculum. WA8413320.
Swine Farmer—Sequence Tasks. SC8413314.

Services
Evaluation Review. CA8413106.
Technical Assistance and Staff Support Resources for Competency-based Vocational Education. MA8413301.

Sex-Bias
Equal Educational Opportunities in Vocational Programs. KY8413222.

Sex-Discrimination
Equal Educational Opportunities in Vocational Programs. KY8413222.

Sex-Fairness
Allied Health Occupations 2—Curriculum Development Project. CT8413301.
Creating a Clientele for Vocational Education. WY8413308.
Development of a Resource Library of Up-to-Date Sex Equitable Materials and Resources for the Child Development and Cooperative Child Care Services. WY8413307.
Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School. WY8413304.
Equal Educational Opportunities in Vocational Programs. KY8413222.
Reducing Sex Bias in the Career Education of Students in Grades 3-6. WY8413305.
Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.
Vocational Education—It's Worth a Second Look. WY8413309.

Sex-Stereotypes
Equal Educational Opportunities in Vocational Programs. KY8413222.

Shop-Curriculum
A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices. MA8413303.
A Shop Management System for Auto Body Programs. MO8413104.

Simulation
A Computerized Instructional Program for the Child Care Industry. TX8413210.
A Computerized Simulation Program for State Board Examinations in Cosmetology. TX8413203.
Curriculum Development: Postsecondary Emergency Medical Technology Paramedic. TX8413304.
Development of Equipment Simulations for Community College Vocational Curricula. NC8413104.
Development of Instruments for Evaluating Marketing and Distributive Education (M&DE) Youth Leadership Activities). TX8413109.
Proposal to Conduct Phase 5 of the Office Simulation Project. GA8413301.

Skill-Analysis
Competency-based Education Curriculum Development for Homemaking Materials (Continuation of WV8313302). WV8413312.
Competency-based General Cooperative Education Curriculum Materials (Continuation of AR8313205). AR8413201.
The Development of Strategies and Procedures for Assessing the Generalizable Skills of Students in Secondary Vocational Programs: Generalizable Mathematics Skills. IL8413116.

Skill-Development
Competency-based Instruction for the Modern Office/Word Processing Technology. MO8413105.
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics. MA8413311.
Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics. MA8413307.
Coordination of Vocational and Academic Curricula. OH8413102.
Defining Math and Science Competencies in Vocational Programs. WA8413335.

Development and Dissemination of Vocational Education Curriculum Materials for the Handicapped.
NJ8413305.

Development of a Secondary-level Robotics Operation and Repair Curriculum.
CT8413303.

Hancock County Entrepreneurial Training Program.
TN8413209.

High Technology Internship.
TX8413205.

Individualized Instructional Assistance for Disadvantaged Students.
LA8413202.

Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.

Math Competencies Taught in Secondary Vocational Education.
NC8413110.

Methodology for Computer Skills Improvement in Vocational Secondary Programs.
OR8413201.

Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Science Competencies of Health Occupations Courses.
NC8413114.

Science Competencies Taught in Secondary Vocational Education.
NC8413111.

Teaching Keyboarding/Typewriting I with Microcomputers and Electric Typewriters.
LA8413206.

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.
IL8413115.

Using the Microcomputer to Teach Keyboarding Skills.
VA8413108.

Skull Positioning

A Microcomputer Skull Positioning Learning Module for Students in Radiologic Technology.
TX8413207.

Slides

Creating a Clientele for Vocational Education.
WY8413308.

Forestry and Forest Products: Quality Felling and Bucking.
OR8413303.

Student Organization Responsiveness for Dropout Prevention: Laurel County.
KY8413216.

Vocational Education—It's Worth a Second Look.
WY8413309.

Vocational Education's Role(s) in Economic Revitalization—Phase 2.
IL8413126.

Small-Business

Developing a Center for Small Business—A Model for Economic Development.
CO8413203.

Small-Businesses

A Shop Management System for Auto Body Programs.
MO8413104.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Using Personal Computers to Promote Economic Development.
MT8413103.

Social-Change

The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Social-Influences

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Social-Mobility

English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Socialization

Discussion Time: A Developmental Project to Facilitate the Socialization of Associate Degree Nursing Students.
MO8413110.

Soil-Sciences

Crops and Soils Curriculum Guide.
WA8413330.

Spanish

North Central Washington Spanish Instruction Modules for Business Occupations.
WA8413310.

Spanish-Speaking

Career Speech Development.
NJ8413201.

Special-Education

'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.

Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs.
TX8413204.

Regional Job Title for Classified Students.
NJ8413203.

Revision of Special Needs Diversified Occupations Curriculum.
WA8413301.

Special Services for Handicapped Students.
NJ8413102.

Special Needs Students

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

Special-Programs

Leadership Development Program in Vocational Special Needs Education.
IL8413119.

Specialists

Audiovisual Materials for the Disadvantaged (Continuation of DUV 3-1E31).
FL8413303.

Speech-Communication

Career Speech Development.
NJ8413201.

Staff-Development

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Computer Workshop for Diversified Cooperative Training (DCT) Teachers.
GA8413212.

High Technology Curriculum Development and Dissemination.
GA8413303.

Leadership Development Program in Vocational Special Needs Education.
IL8413119.

Microcomputer Applications: An Impact for Local Vocational Programs.
IL8413107.

Staff Development Curriculum for High Technology Instructors.
GA8413306.

Standards

A Study of the Certification Needs and Requirements for Teachers of Vocational-Technical Education Programs in the Secondary and Postsecondary Schools of Louisiana.
LA8413106.

State-Agencies
Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

State-Curriculum-Guides
Basic Auto Body Construction.
OK8413306.
Computerized Numerical Control Turning Technician.
OK8413304.
Fundamentals of Carpentry.
OK8413302.
Health Services Careers (revised 1985).
OK8413310.
Introduction to Auto Body.
OK8413305.
Marketing.
OK8413307.
Marriage and Family Life.
OK8413303.
Residential Carpentry (revised 1985).
OK8413309.
Vocational Agriculture 1 (revised 1984).
OK8413301.
Vocational Agriculture 2 (revised 1985).
OK8413308.

State-Department-of-Education
Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.

State-Departments-of-Education
Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.
Resource Center.
MO8413302.

State-of-the-Art-Reviews
State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.
Update of the Secondary Vocational Office Education Data Processing Curriculum.
TX8413108.

State-Programs
A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.
An Assessment of Vocational Education in Massachusetts.
MA8413102.
Assessment of the Impact of the Bureau of Vocational Education's Guidance Program.
PA8413117.
Assessment of the Impact of the Bureau of Vocational Education's Program for Handicapped Populations in Pennsylvania.
PA8413118.
Connecticut Assessment of Educational Progress: Business and Office Education.
CT8413105.
Coordination of Special Evaluation Activities.
FL8413117.
Development of a Model for Technical Updating of Vocational Teachers in Florida.
FL8413114.
Evaluation Review.
CA8413106.
Statewide Cooperative Education Videotape.
OR8413301.
Statewide Evaluation of Vocational Education's Consumer and Homemaking Programs.
PA8413109.
Vocational Education Consultants.
NM8413303.

Statewide-Planning
A Marketing and Distributive Education Curriculum Development Plan and Student Learning Objectives.
WA8413332.
Developing a Master Plan for Improving Competency-based Vocational Education.
FL8413109.
Statewide Assessment and Projection of Needed High Technology Training Programs.
CO8413104.

Student Accountability Model (California)
Improving Data Quality and Vocational Education Data System (VEDS) Reporting.
CA8413102.

Student-Attitudes
Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.
Long Range Follow-up of Students Enrolled in Cherry Creek District Vocational Education Programs.
CO8413106.
Occupational Status as Perceived by Vocational Education Students.
KY8413208.
Pivot A Lift: PAL.
KY8413209.
Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education.
LA8413101.
Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana.
MT8413111.

Student-Certification
Employability Voucher System.
WA8413104.
Vocational Information for Career Guidance.
WA8413101.

Student-Development
Research to Develop a Curriculum Continuum of Prevocational Skills.
TX8413110.

Student-Evaluation
Model Management Process for a Statewide Criterion-Referenced Testing Program.
GA8413215.
Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields.
KY8413201.

Student-Improvement
Automated Management and Instructional Support for Special Needs Students.
LA8413201.
Project Pacer (Peer-Assisted Computer Exposure and Remediation).
NJ8413205.
Research and Experimentation in Applied Learning.
NJ8413107.

Student-Mobility
The Influence of Mobility and Social Factors Affecting the Success of Postsecondary Vocational Technical Training Programs.
MS8413101.

Student-Motivation
Licensed Practical Nursing—Training Assistance for Disadvantaged Students.
LA8413203.

Student-Needs
Articulation—Phase I: Spokane Area Vocational Skills Center/Spokane Falls Community College, Development of a Model.
WA8413109.
Needs Assessment for Consumer Education Curriculum Development.
LA8413105.

Student-Organizations
A Study of the Congruency between the Interests and Concerns of Student Participants and the Goals, Objectives, and Activities of Vocational Student Organizations.
MO8413118.
Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.
Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar.
IL8413127.
Project: MOD Squad (Dropout Prevention).
KY8413213.
Refining and Completing Development of Economic Literacy Classroom Infusion Materials for Dissemination to Vocational Educators.
IL8413122.

Student-Participation
A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Student-Placement
Inter-District Enrollment Project.
CT8413201.
Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields.
KY8413201.

Student-Records
Automated Management and Instructional Support for Special Needs Students.
LA8413201.
Microcomputerized Farm Records Management.
WA8413307.

Student-Recruitment
Developing the Marketing of the Adult College Reentry Network at Mineral Area College (Continuation of MO8313111).
MO8413123.
Development of a Model for Recruiting the New Community College Student.
NC8413103.
Identification and Evaluation of Assessment Tools Used to Counsel Students.
CO8413202.
Instrumental Analysis in Chemical Laboratory Technology.
NJ8413302.

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

The Identification of Recruitment Barriers to Vocational Training Programs as Perceived by Students, Teachers, Counselors and Administrators in Selected Florida Schools.
FL8413101.

Vocational Education—It's Worth a Second Look.
WY8413309.

Student-School-Relationship

Five County Regional Vocational System: Regional Communications Model.
IL8413121.

Study-Guides

Competency-based Education Project.
FL8413305.

Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.
TX8413312.

Study-Skills

Pivot A Lift: PAL.
KY8413209.

Submerged Arc Welding

Implementation of Submerged Arc Welding Training.
WA8413321.

Success

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.

Summative-Evaluation

A System for Evaluating Research and Development Products and Providing Feedback to Production and Dissemination Personnel.
FL8413108.

Development of Instructional Materials for Vocational Personnel Serving Students Who Are Speakers of Other Languages and Have Limited English Proficiency—Phase 2 (Continuation of PA8313316).
PA8413318.

Evaluation of a Computer-aided Instruction Program: Postsecondary Cosmetology Course of Study.
GA8413216.

Postsecondary/High Technology: Program and Vocational School Model Development.
KY8413221.

Third Party Evaluation of Florida Education Information Service (FEIS).
FL8413119.

Supermarket Operations

Supermarket Operations.
SC8413307.

Supervised-Farm-Practice

A Study to Determine the Success of Girls in Vocational Agriculture Programs.
WY8413302.

Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana.
MT8413111.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

Supervised Occupational Programs

Development of an Instructional Unit for the New Computer-compatible Record Book.
PA8413111.

Research to Determine the Effectiveness of the Supervised Occupational Experience (SOE) Part of the Vocational Agriculture Program in Montana.
MT8413111.

Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture.
MO8413125.

The Development of a Computer-compatible Supervised Occupational Experience (SOE) Record System for Vocational Agriculture.
PA8413303.

Supervision

Provisions for Consultative Research Associate for Vocational Education.
FL8413104.

Surgical-Technicians

Curriculum Planning for Oral and Maxillofacial Surgery Assistant Program.
MO8413112.

Surveys

A Study of Articulation in Missouri Vocational Technical Programs.
MO8413122.

Community College Employer Satisfaction Survey.
MA8413101.

Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308).
WV8413313.

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference.
PA8413121.

Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions.
CO8413105.

Student Recruitment and Selection for Area Vocational-Technical Schools in Pennsylvania Policies and Processes.
PA8413122.

Survey of Collaborative Efforts between Schools/Business/Industry/Labor.
OR8413101.

Swine

Swine Farmer—Sequence Tasks.
SC8413314.

Synthesis

Identification and Assessment of Vocational Education Outcomes.
IL8413125.

Systems-Approach

Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project.
FL8413301.

State-level Coordination of the Commonwealth's Vocational Education Curriculum Development System.
PA8413319.

Systems-Development

Continuation and Extension of Performance-based Vocational Education—Phase 3 (Continuation of PA8313305).
PA8413314.

Coordination of Special Evaluation Activities.
FL8413117.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education.
TX8413101.

Evaluation Review.
CA8413106.

Information Distribution Plan.
SC8413101.

Microcomputerized Farm Records Management.
WA8413307.

Program Development and Dissemination.
MI8413302.

Project Follow-up.
WA8413105.

Standardized Procedures for Follow-Up Assessment.
IL8413124.

Trade and Industrial Education Instructional Networks (Tie-in)—Phase 2.
VA8413313.

Vocational Education Reporting System (VERS) Management Project.
VA8413109.

Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals.
GA8413302.

Talent

Development of Level 3 General Marketing Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Ocean County Vocational-Technical School's Model for Gifted and Talented Entrepreneurship Training Program.
NJ8413110.

Task-Analysis

Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs.
CO8413103.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413307.

Completion of Model Competency-based Vocational Education (CBVE) Curriculum in Auto Mechanics.
MA8413311.

Health Occupations Education I (Revision).
SC8413310.

Implementing Competency-based Vocational Education (CBVE).
PA8413307.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Vocational Program Mapping and Follow-up Evaluation.
FL8413311.

Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician. PA8413302.
Vocational-Technical Education Consortium of States (V-TECS) in Virginia. VA8413104.

Tax-Credits
Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture. MO8413125.

Taxes
Revising the Depreciation and Investment Credit Lessons for Farm Management and Supervised Occupational Experience for Use in Missouri Programs of Vocational Agriculture. MO8413125.

Teacher-Attitudes
A Study of Articulation in Missouri Vocational Technical Programs. MO8413122.
An Analysis of Vocational Teachers' Understandings and Attitudes toward Using Microcomputers in Vocational Education. PA8413113.
An Evaluation of Business Teacher Education in Connecticut. CT8413104.
Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference. PA8413121.
Needs Assessment for Consumer Education Curriculum Development. LA8413105.
Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.
The Effectiveness of Competency Profiles. OK8413101.

Teacher-Certification
A Study of the Certification Needs and Requirements for Teachers of Vocational-Technical Education Programs in the Secondary and Postsecondary Schools of Louisiana. LA8413106.

Teacher-Education
An Evaluation of Business Teacher Education in Connecticut. CT8413104.
Curriculum Development: Postsecondary Cosmetology Instructor Program Materials. TX8413307.
Evaluate the Effectiveness of the Occupational Orientation Programs (RIO). TX8413112.

Teacher-Education-Programs
Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana. LA8413103.
Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.

Teacher-Educators
Diffusion Network Model. FL8413102.
Resource Center. MO8413302.

Teacher-Effectiveness
Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana. LA8413103.
Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments. KS841310[illegible]

Teacher-Exchange-Programs
Project TRADE: Teacher Retraining and Directed Exchange. OH8413101.

Teacher-Improvement
Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped. NJ8413109.
Development of a Model for Technical Updating of Vocational Teachers in Florida. FL8413114.
Industry/Education Coordinator. PA8413201.
Instruction in Intravenous Therapy. MT8413311.

Teacher-Participation
Industrial Education Curriculum Development. MT8413310.

Teacher-Role
Implementing Competency-based Vocational Education (CBVE). PA8413307.

Teacher-Workshops
Curriculum Development in Vocational Agriculture. CA8413305.
Development of Competency-based Learning Activities for Implementing Occupational Experiences Methodology in Distributive Education General and Specialized Marketing Courses. VA8413305.
Diffusion Network Model. FL8413102.
Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development. MO8413304.
Industrial Arts Communications Curriculum Guide Workshop. NM8413302.
Kansas Competency-based Vocational Education Project—FY 1984. KS8413303.
Marketing Curriculum Guides Dissemination 2. IL8413302.
Network Communications Utilizing Remote Sites as Exemplary Demonstration Sites on Microcomputers in Business Education. MT8413201.
Vocational Improvement Practices (VIP) (Continuation of CT8313207). CT8413206.

Teaching-Guides
A Computerized Instructional Program for the Child Care Industry. TX8413210.
A Model Competency-based Vocational Education (CBVE) Curriculum in Greenhouse Operation and Management. MA8413302.
A Model Competency-based Vocational Education (CBVE) Curriculum in Machine Shop Practices. MA8413303.
A Model Competency-based Vocational Education Curriculum (CBVE) for Child Care Assistant. MA8413304.
Agricultural Curriculum Development. WI8413302.
An Identification of Science Competencies Taught in Secondary Vocational Agriculture. NC8413115.
Biomedical Equipment Technician Demonstration Program (Madisonville). KY8413224.
'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual. VA8413302.
Computer-aided Drafting (CAD) Postsecondary Demonstration Program (West Kentucky). KY8413227.
Curriculum Development: Postsecondary Cosmetology Instructor Program Materials. TX8413307.
Curriculum Development: Postsecondary Emergency Medical Technology Paramedic. TX8413304.
Curriculum Development—Postsecondary Office Occupations Competency Tests. TX8413302.
Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged. TX8413312.
Development and Validation of a Teacher Handbook for Serving Vocational Students with Special Needs. TX8413204.
Development of an Instructional Unit for the New Computer-compatible Record Book. PA8413111.
Development of Curricula and Materials to Teach Performance Skills Essential to Accurate Computer-assisted Transcript from Machine Shorthand Notes. WA8413323.
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Manufacturing. VA8413312.
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Modern Industry. VA8413303.
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology. VA8413304.
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas (Communications Technology). VA8413311.

Development of Level 3 *General Marketing* Teacher's Resource Guides, Marketing Exploratory Modules, and Level 2 Distributive Education Clubs of America (DECA) Comparative Events.
VA8413306.

Electronics Postsecondary Demonstration Program (Central Kentucky).
KY8413226.

Implementation of Competency-based Education in Marriage and the Family (C&H Semester Course-8272) for Home Economics Education.
VA8413309.

Implementation of Competency-based Education in the Catering Specialist (SIP-8279) Course for Home Economics Education.
VA8413308.

Implementation of Competency-based Education in the Fashion Specialist (SIP-8289) Course for Home Economics Education.
VA8413307.

Implementing Competency-based Education in the Consumer and Homemaking-Grade 8 (18 weeks-8210) Course for Home Economics.
VA8413310.

Industrial Arts Communications Curriculum Guide Workshop.
NM8413302.

Industry Panel Curriculum Project.
OR8413309.

Instructional Guides for Fundamentals of Marketing Occupation and Marketing Distribution.
FL8413309.

Kansas Competency-based Vocational Education Project—FY 1984.
KS8413303.

Maryland Vocational Curriculum Research and Development Center (Continuation).
MD8413301.

Methodology for Computer Skills Improvement in Vocational Secondary Programs.
OR8413201.

Model Program for Flexible Automation in Electronics Technology.
TX8413113.

Operation of a Center for the Development of Home Economics Instructional Materials and Postsecondary Child Development Curriculum Materials.
TX8413313.

Postsecondary Electromechanical Technology.
TX8413311.

Prevocational Education Module Revision—Phase 3.
SC8413305.

Principles of Technology.
OH8413302.

Principles of Technology.
IL8413128.

Revision of Electro-Mechanical Drafting Program to Include CAD/D (Computer Aided Drafting/Design).
WA8413325.

Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide.
IL8413306.

Training and Implementation of Computer-managed, Competency-based New Teacher Institution.
GA8413214.

Updating Montana Curriculum Guidelines for Distributive Education.
MT8413303.

Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.

Using Handicapped Workers as Career Role Models in Career Development.
NJ8413206.

Using the Microcomputer to Teach Keyboarding Skills.
VA8413108.

V-TECS (Vocational-Technical Education Consortium of States).
IL8413304.

Word and Data Processing Postsecondary Demonstration Program (Harlan).
KY8413225.

Teaching-Methods

Computers in the Small-Scale Construction Trades Industry Applications and Education.
CA8413301.

Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.

Instructional Improvement.
PA8413306.

Math Competencies Taught in Secondary Vocational Education.
NC8413110.

Methodology for Computer Skills Improvement in Vocational Secondary Programs.
OR8413201.

Promoting Student Achievement.
CA8413303.

Science Competencies Taught in Secondary Vocational Education.
NC8413111.

State-of-the-Art for General and Technical Related Curriculum in Diversified Occupations Programs.
PA8413101.

Successful Practices in Educational Settings for Working with Handicapped Students.
FL8413115.

Task-Oriented, Computer-assisted Instructional Model for Vocational Education.
MT8413203.

Teacher Training, Curriculum, and Student Learning Objectives (SLOs) Development.
WA8413303.

The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs.
IL8413115.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania.
PA8413104.

The Implementation of Pilot Entrepreneurship Programs for High School and Adult Students in the Memphis City Schools.
TN8413202.

Teaching-Skills

Staff Development Curriculum for High Technology Instructors.
GA8413306.

Trades and Industry Technical Skill Examinations Assessment and Revision.
SC8413103.

Team-Teaching

Introduction to Robotics Curriculum.
MO8413115.

Technical-Assistance

Advisory Committees/Councils Effectiveness.
KY8413212.

Annual Plan of the Minnesota Research and Development Center for Vocational Education—FY 1984.
MN8413101.

Annual Plan of Work for the Minnesota Research and Development Center for Vocational Education.
MN8413102.

Competency-based Vocational Education (CBVE) Curriculum—Auto Body Repair.
MA8413315.

Competency-based Vocational Education (CBVE) Curriculum—Carpentry.
MA8413305.

Competency-based Vocational Education (CBVE) Curriculum Development—Phase 1 Drafting.
MA8413309.

Competency-based Vocational Education (CBVE) Curriculum—Electronics.
MA8413310.

Competency-based Vocational Education (CBVE) Curriculum for Medical Assistant.
MA8413308.

Competency-based Vocational Education (CBVE) Curriculum—Medical Assistant.
MA8413306.

Competency-based Vocational Education (CBVE) Curriculum—Phase 1 Drafting.
MA8413314.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413313.

Competency-based Vocational Education (CBVE) Curriculum—Small Business Management.
MA8413312.

Competency-based Vocational Education Curriculum—Metal Fabrication.
MA8413317.

Continuation of a Program to Develop Competency-based Vocational Education in the Two Area Vocational-Technical Schools of Chester County.
PA8413304.

Curriculum Publications Clearinghouse.
IL8413305.

Develop and Implement Performance-based Industrial Training (Training For Profit).
IN8413302.

Illinois Vocational Curriculum Center.
IL8413102.

Special Studies for Florida Vocational Education (Continuation).
FL8413103.

Study of Work: Phase 2 (Continuation of NJ8313209).
NJ8413207.

Technical Assistance and Staff Support Resources for Competency-based Vocational Education.
MA8413301.

Technical Assistance—Staff Development for Competency-based Vocational Education (CBVE).
MA8413316.

Vocational Information and Program Services (VIPS).
NM8413301.

Technical-Education
Academic/Vocational Project: Fairdale High School. KY8413220.
Exemplary Software. TN8413211.
Innovative Vocational Education Delivery System. IL8413109.
Principles of Technology. IL8413128.
Principles of Technology. OH8413302.
Shawnee-Detrick Academic/Vocational Project. KY8413230.

Technical-Mathematics
An Integrated Curriculum for Computer-aided Design (CAD) and Computer-aided Manufacture (CAM). NJ8413306.

Technical-Occupations
Affective Work Competencies in Postsecondary Occupational Education: A Feasibility Study. NY8413103.

Technological-Advancement
Adult and Postsecondary Developmental Initiatives. PA8413204.
Articulation—Phase I: Spokane Area Vocational Skills Center/Spokane Falls Community College, Development of a Model. WA8413109.
Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College. TX8413202.
Establish a Statewide Task Force to Identify the Future Vocational Education Inservice Needs Relative to New Technological Developments. KS8413103.
Fiber Optics Communications Technology. TX8413107.
High Technology Curriculum Development and Dissemination. GA8413303.
High Technology Internship. TX8413205.
High Technology Training Needs Assessment. NJ8413101.
Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc. WA8413318.
Instrumental Analysis in Chemical Laboratory Technology. NJ8413302.
Multimedia of Vocational Education Courses: A Study of the Potential to Interface Microprocessor Control for Media Devices—Phase 2. IL8413111.
Needs Assessment and Core Curriculum Determination for Secondary and Postsecondary Career-specific High Technology Programs. TX8413111.
Perceptions of High Technology Industry Executives and Administrators of Public Two-Year Postsecondary Institutions. CO8413105.
Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education. AZ8413101.
Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology. MO8413103.
Staff Development Curriculum for High Technology Instructors. GA8413306.
Statewide Assessment and Projection of Needed High Technology Training Programs. CO8413104.
The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs. IL8413115.
Understanding Robotics. NJ8413304.
Update Visual Media Technologies Program Graphics I to Include New Computer Graphics and Computer Typesetting Technologies. WA8413315.
Word and Data Processing Postsecondary Demonstration Program (Harlan). KY8413225.

Technology
An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.
Competency Development for Industrial Arts Manufacturing Technology (Grades 5-8). WV8413310.
Competency Development for Industrial Arts Transportation Technology (Grades 5-8). WV8413309.
Competency Development for Industrial WVTS Construction Technology (Grades 5-8). WV8413308.
Coordination and Articulation of Curriculum in the Emerging High Technology Area of Data Systems Repair and Computer Repair. KS8413205.
Development of Instructional Resource Guides for Competency-based Programs in Selected Industrial Arts Program Areas—Materials and Processes Technology. VA8413304.
Identification of Electronics Competencies in Vocational Programs. WA8413110.
Introduction to Robotics Curriculum. MO8413115.
Performance Testing in Electronic Technology. WA8413108.
Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum. MO8413126.
Prevocational Education Module Revision—Phase 3. SC8413305.
Principles of Technology. OH8413302.
Principles of Technology. IL8413128.
Research and Development for Meeting Current and Future Needs in Identifying and Analyzing New or Advanced Technologies and Their Impact on Vocational Education. AZ8413101.
Restructuring a Course of Study to Facilitate the Teaching of Applications of Electronic Theory to High Technology. MO8413103.
The Development of a Model, Strategies, and Procedures for Introducing Change Skills into Vocational Programs. IL8413115.
Update Medical Record Technology Curriculum Incorporating Nationally Approved Entry-level Competencies. WA8413317.

Telecommunications
Network Communications Utilizing Remote Sites as Exemplary Demonstration Sites on Microcomputers in Business Education. MT8413201.
Phase 1 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum. MO8413111.
Phase 2 Feasibility Study to Gather Information for Implementing Telecommunications into Office Technology Curriculum. MO8413126.
Telecommunications. WA8413334.

Television
Dissemination, Utilization, and Program Awareness. KY8413223.
Statewide Cooperative Education Videotape. OR8413301.
Vocational Education—Georgia Outstanding Students. GA8413213.

Tenure
Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School. WY8413304.

Test-Construction
Performance Testing in Electronic Technology. WA8413108.

Test-Format
Trades and Industry Technical Skill Examinations Assessment and Revision. SC8413103.

Test-Items
Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval. FL8413106.
Trades and Industry Technical Skill Examinations Assessment and Revision. SC8413103.
Vocational-Technical Education Consortium of States (V-TECS) Test Item Bank for Metals. GA8413302.

Test-Reviews
Trades and Industry Technical Skill Examinations Assessment and Revision. SC8413103.

Test-Validity
Concurrent Validity Research on Vocational Assessment of the Physically Handicapped.
NJ8413106.
Development of a Model for Criterion Test Items Universe for Assessing the Competency Level for Beginning Vocational Administrators for University Vocational Administrators' Training and Program Approval.
FL8413106.

Testing
Concurrent Validity Research on Vocational Assessment of the Physically Handicapped.
NJ8413106.
Curriculum Development—Postsecondary Office Occupations Competency Tests.
TX8413302.

Testing-Programs
A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.
Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields.
KY8413201.

Tests
A Computerized Simulation Program for State Board Examinations in Cosmetology.
TX8413203.
Curriculum Development—Vocational-Instructional Education Handicapped and Disadvantaged.
TX8413312.
Trades and Industry Technical Skill Examinations Assessment and Revision.
SC8413103.

Textbooks
A Computerized Instructional Program for the Child Care Industry.
TX8413210.

Theories
Curriculum Development—Summer 1983.
CT8413302.

Time-On-Task
Time Allocation Study.
OH8413301.

Trade-and-Industrial-Education
Competency-based Curriculum Materials for Agriculture, Business, Marketing and Distributive Education, Home Economics, and Trade and Industrial Education—Electronics.
AZ8413303.
Curriculum Development for Industrial Education Programs.
FL8413307.
Curriculum Development—Summer 1983.
CT8413302.
High School Industrial Arts Curriculum Guide.
OR8413307.
Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses.
NC8413113.
Revise Curriculum for General Mechanic Chassis 070/071 Front Wheel Drive.
WA8413305.
Trades and Industry Technical Skill Examinations Assessment and Revision.
SC8413103.
Updating of the Curricula for Industrial Refrigeration Course.
WA8413309.
Using Microcomputers in Vocational Education To Teach Skills Needed in Trade and Industrial.
WV8413302.
Vocational Mathematics in Trade and Industrial Education.
SC8413304.

Trade-and-Industrial-Teachers
A Study of the Certification Needs and Requirements for Teachers of Vocational-Technical Education Programs in the Secondary and Postsecondary Schools of Louisiana.
LA8413106.
Creating a Clientele for Vocational Education.
WY8413308.
Industrial Education Curriculum Development.
MT8413310.

Training-Methods
Continuation of Job Related Physical Capacity (JRPC).
FL8413201.
Cooperative Vocational Education for Postsecondary Vocational-Technical School (Continuation of AR8313105).
AR8413101.
Quality Circles Training for Community College Educators and Students and the Businesses They Serve.
NC8413105.
Training Alternatives for Handicapped Students in Vocational Education Programs.
VA8413101.

Transfer-of-Training
Science Competencies of Health Occupations Courses.
NC8413114.

Transparencies
Occupational Hazards in a Business Office.
SC8413313.

Transportation
Competency Development for Industrial Arts Transportation Technology (Grades 5-8).
WV8413309.

Trend-Analysis
Occupational Education Programs at Community Colleges of the City University of New York (Continuation).
NY8413106.

Tutorial-Programs
Personal Finances for Adult Students.
KY8413203.
The Fourth Basic: Computer Skills.
KY8413204.

Tutoring
Project Pacer (Peer-Assisted Computer Exposure and Remediation).
NJ8413205.

Typewriting
Teaching Keyboarding/Typewriting I with Microcomputers and Electric Typewriters.
LA8413206.
The Fourth Basic: Computer Skills.
KY8413204.

Underemployment
English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Unemployment
English as a Second Language, Basic Skills, and Careers Program.
NJ8413208.

Units-of-Study
A Shop Management System for Auto Body Programs.
MO8413104.
'Career Opportunities' and 'Basic Living Skills' Units of Education for Employment/Work Experience Cooperative Education Program (EFE/WECEP) Instructional Materials Manual.
VA8413302.
Competency-based Education Curriculum Revision/Upgrading.
WV8413314.
Computer Software for Forestry Technology Curricula.
WA8413324.
Curriculum Development in Agriculture, 1984.
OR8413304.
Determine Personal Characteristics Which Make Students More Employable in Agriculture.
MT8413109.
Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach.
PA8413102.
Development of an Instructional Unit for the New Computer-compatible Record Book.
PA8413111.
Improving the Vocational Curriculum: Basic Business Skills for Vocational Students.
WA8413319.
Model Units for a Semester of Marketing and Distributive Education 1.
LA8413302.
Review of the Vocational Cluster System.
OR8413310.
Supermarket Operations.
SC8413307.
Training Curriculum for Millmen and Cabinetmakers—Phase 2 (of OR8413305).
OR8413311.
Understanding Robotics.
NJ8413304.
Updating Vocational Agricultural Curriculum Resource Units.
MT8413307.

Urban-Teaching
Study of Work: Phase 2 (Continuation of NJ8313209).
NJ8413207.

Use-Studies
A Study of Activities and Impact of Advisory Committees on Vocational Programs.
OK8413102.

User-Satisfaction-Information
The Effectiveness of Competency Profiles.
OK8413101.

Validated-Programs
Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project.
FL8413301.

Validation

Training Materials for Teachers of Disadvantaged Students in Vocational Education. FL8413203.

Validity

Competency Development of a Hospitality Curriculum. WV8413315.

Coordination of Special Evaluation Activities. FL8413117.

Development of Competencies for Industrial Arts Communication Technology (Continuation of WV8313308). WV8413313.

Feasibility of Utilizing Placement Rate Concept in Vocational Education. CA8413105.

Verbal-Communication

Broad-based Applied Technology Program for Secondary Schools. KS8413202.

Development and Implementation of a Math and Communication Program for Postsecondary Vocational and Technical Schools (Continuation of AR8313202). AR8413202.

Videodisc-Recordings

Impacting Computer-assisted Design/Computer-assisted Manufacturing (CAD/CAM) Industries through Computer-assisted Instruction Utilizing Videodisc. WA8413318.

Videotape-Cassettes

Development of Equipment Simulations for Community College Vocational Curricula. NC8413104.

Introduction into Use of Oscilloscope. OR8413306.

Oregon Partnership Electronics Program. OR8413302.

Principles of Technology. OH8413302.

Statewide Cooperative Education Videotape. OR8413301.

Videotape-Recordings

Competency-based Welding Processes Videotapes. MO8413116.

Computer Assisted Drafting/Computer Assisted Manufacturing (CAD/CAM) Orientation Videotapes. IL8413103.

Dental Hygiene Instructional Videotape Development. NJ8413308.

Develop and Demonstrate the Use of Interactive Instructional Television Delivery Systems for Application in Technical and Vocational Education. TX8413101.

Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System. WA8413326.

Dissemination, Utilization, and Program Awareness. KY8413223.

Identification and Evaluation of Assessment Tools Used to Counsel Students. CO8413202.

Microcomputers in Agricultural Education. VA8413107.

Principles of Technology. IL8413128.

Vocational Support Services Project. TN8413201.

Visual-Aids

Development of a Resource Library of Up-to-Date Sex Equitable Materials for the Diversified Cooperative Education Program at East High School. WY8413304.

Visual Communications Education

An Analysis and Field Test of Selected Technology Curriculum Material for Vocational Funded Industrial Arts Programs. TX8413206.

Visual Translation

Mathematics Competencies Needed in Selected Trade and Industrial Education Program Courses. NC8413113.

Mathematics Competencies Needed in Selected Vocational Agriculture Program Courses. NC8413112.

Vocational-Agriculture-Teachers

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.

Vocational-Education

Vocational Assessment Consortium: Wilderness Trail. KY8413215.

Vocational Education Data System

Improving Data Quality and Vocational Education Data System (VEDS) Reporting. CA8413102.

Vocational Education Reporting System

Vocational Education Reporting System (VERS) Management Project. VA8413109.

Vocational-Education-Teachers

An Analysis of Vocational Teachers' Understandings and Attitudes toward Using Microcomputers in Vocational Education. PA8413113.

An Impact Analysis of an Inservice Instructional Resource Team Approach for Teachers of Disadvantaged Learners. PA8413112.

Assessing/Meeting Training Needs of Regular Vocational Education Teachers of the Handicapped. NJ8413109.

'Curriculum Information News' for Teachers, Counselors, and Administrators of Disadvantaged Learners (Continuation of PA8313317). PA8413313.

Development and Evaluation of a Vocational Agriculture Course of Study Planning Approach. PA8413102.

Development of a Method to Increase the Teaching Effectiveness of Health Occupations Education Instructors in Lousiana. LA8413103.

Development of a Model for Technical Updating of Vocational Teachers in Florida. FL8413114.

Diffusion Network Model. FL8413102.

Disseminate, Inservice, and Produce Kansas Vocational Curriculum Materials. KS8413301.

Dissemination of Project 83-133-600-1: Vocational Education Curriculum Development. MO8413304.

Implementing Competency-based Vocational Education (CBVE). PA8413307.

Preservice Teacher Education in Agriculture as Perceived by Teachers and Students of Vocational Agricultural Education. LA8413101.

Project TRADE: Teacher Retraining and Directed Exchange. OH8413101.

Resource Center. MO8413302.

Staff Development Curriculum for High Technology Instructors. GA8413306.

Study of Work: Phase 2 (Continuation of NJ8313209). NJ8413207.

The Identification of Creative Methods of Utilizing Competency-based Instructional Materials by Vocational Instructors in Pennsylvania. PA8413104.

Vocational English as a Second Language

Computer-assisted Vocational English as a Second Language (VESL) Instruction for Vocational Education. IL8413120.

Vocational-Evaluation

Concurrent Validity Research on Vocational Assessment of the Physically Handicapped. NJ8413106.

Student Assessment and Placement in Vocational Programs with Emphasis on High Technology Fields. KY8413201.

Vocational Assessment Center for the Handicapped. KY8413219.

Vocational Assessment Consortium: Bluegrass Area. KY8413214.

Vocational-Followup

Follow-up and Evaluation Projects. FL8413312.

Jobs for Bay State Graduates (Continuation of MA8313209). MA8413205.

Jobs for Bay State Graduates (Continuation of MA8313210). MA8413203.

Jobs for Bay State Graduates (Continuation of MA8313211). MA8413201.

Jobs for Bay State Graduates (Continuation of MA8313212). MA8413204.

Jobs for Bay State Graduates (Continuation of MA8313213). MA8413202.

Vocational Program Mapping and Follow-up Evaluation. FL8413311.

Vocational Industrial Clubs of America

Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference. PA8413121.

Vocational-Interests
Occupational Status as Perceived by Vocational Education Students. KY8413208.

Vocational Linked Method
Research and Experimentation in Applied Learning. NJ8413107.

Vocational-Schools
Articulation between Secondary and Postsecondary Vocational-Technical Education. TN8413212.
Continuation of a Program to Develop Competency-based Vocational Education in the Two Area Vocational-Technical Schools of Chester County. PA8413304.
Curriculum Development—Summer 1983. CT8413302.

Vocational Technical Education Consortium States
Continuation of Florida Vocational-Technical Consortium of States (V-TECS) Project. FL8413301.
Cosmetology—Vocational Education Consortium of States (V-TECS) Guide. SC8413302.
Machine Shop—Vocational-Technical Education Consortium of States (V-TECS) Guide. SC8413303.
Plumbing and Pipe Fitting—Vocational-Technical Education Consortium of States (V-TECS) Guide. SC8413301.
Salesmanship. SC8413306.
Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide. IL8413306.
V-TECS (Vocational-Technical Education Consortium of States). IL8413304.
Vocational-Technical Education Consortium of States (V-TECS) Catalog Development: Laser Technician. PA8413302.
Vocational-Technical Education Consortium of States (V-TECS) in Virginia. VA8413104.

Vocational-Training-Centers
Developing a Center for Small Business—A Model for Economic Development. CO8413203.
Planning for Multi-Center Competency-based Vocational Education (CBVE) Programs. FL8413111.

Volunteers
The Fourth Basic: Computer Skills. KY8413204.

Wage Earning
Development and Implementation of Curriculum for Wage Earning Home Economics Programs. MT8413309.

Water-Quality
Development of Chemical Analysis Training Programs for Fisheries Technicians Utilizing an Interactive Microcomputer Videotape System. WA8413326.

Water-Resources
Energy and Water Conservation Curriculum Development in Irrigation Technology for the Pacific Northwest. WA8413311.

Welding
Articultion of Secondary and Postsecondary Vocational Programs to Accommodate Advanced Standing in Postsecondary Vocational Education Programs. CO8413103.
Competency-based Welding Processes Videotapes. MO8413116.
Implementation of Submerged Arc Welding Training. WA8413321.

Woodworking
Advanced Technical Drafting, Advanced Metals, Advanced Woodworking. LA8413303.

Word-Processing
Competency-based Instruction for the Modern Office/Word Processing Technology. MO8413105.
Integration of an Information Processing Center into a Modern/Office Word Processing Technology Course. MO8413106.
Kansas Information/Word Processing Curriculum Guide Update. KS8413302.
Secretarial Occupations Vocational-Technical Education Consortium of States (V-TECS) Guide. IL8413306.
Telecommunications. WA8413334.
Word and Data Processing Postsecondary Demonstration Program (Harlan). KY8413225.
Word/Information Processing with Microcomputers in Business Education. LA8413207.
Word Processing Instructional Materials for the CPT. MT8413301.

Work Analysis Specialist
Work Analysis Specialist. IN8413303.

Work-Attitudes
Affective Work Competencies in Postsecondary Occupational Education: A Feasibility Study. NY8413103.

Work-Experience
Career Passport Experience Profile Guide. KY8413202.
Horticulture Training. NJ8413210.

Work-Experience-Programs
Business Office Skills Development. CT8413203.
Develop a Micro-electronics Related Cluster Program for Small or Rural Community Junior College. TX8413202.
Dropout Prevention in Hart County. KY8413218.
High Technology Internship. TX8413205.
Pivot A Lift: PAL. KY8413209.
Vocational Support Services Project. TN8413201.

Work Patterns
Standardized Procedures for Follow-Up Assessment. IL8413124.

Work Values Inventory
The Relationships between Work Values and Occupational Aspirations of Female Juvenile Delinquents. PA8413103.

Workbooks
A Computerized Instructional Program for the Child Care Industry. TX8413210.
Project VOICE (Vocational Interpretation and Curriculum Enrichment) (Continuation). TN8413206.

Workshops
Articulation Project in Engineering Technology Career Awareness. TN8413210.
Computer Workshop for Diversified Cooperative Training (DCT) Teachers. GA8413212.
Developing the Marketing of the Adult College Reentry Network at Mineral Area College (Continuation of MO8313111). MO8413123.
Evaluation of the Effectiveness and Need for the Vocational Industrial Clubs of America (VICA) Fall Conference. PA8413121.
Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar. IL8413127.
Improving Data Quality and Vocational Education Data System (VEDS) Reporting. CA8413102.
Microcomputer Applications: An Impact for Local Vocational Programs. IL8413107.
Quality Circles Training for Community College Educators and Students and the Businesses They Serve. NC8413105.
Reversing the Trend toward Sex Role Stereotyping in Schools. WY8413301.
Working Together: Employers and Educators. CT8413205.

Writing-Skills
Field-test the Technique and Methods of Incorporating Basic/Relevant Skills into Regular Vocational Teaching Practices. KS8413203.

Youth-Leaders
Illinois Coordinating Council for Vocational Student Organizations State Officer Leadership Seminar. IL8413127.

Appendix A

FY 1984 State-administered Program Improvement Projects by State and Legislative Section

TABLE A1

FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS

	Sec. 131 (Research)		Sec. 132 (Exemplary)		Sec. 133 (Curriculum)		TOTALS	
	No. of Projects	Amount	No. of Projects	Amount	No. of Projects	Amount	No. of Projects	Amount
Alabama	0	--	0	--	0	--	0	--
Alaska	0	--	0	--	0	--	0	--
Arizona	2	50,000	2	115,000	3	177,000	7	342,000
Arkansas	4	60,475	3	96,934	0	--	7	157,409
California	5	445,896	0	--	6	289,945	11	735,841
Colorado	7	104,376	3	36,000	0	--	10	140,376
Connecticut	5	88,451	6	121,932	5	44,020	16	254,403
Delaware	0	--	0	--	0	--	0	--
District of Columbia	0	--	0	--	0	--	0	--
Florida	19	547,030	3	50,000	12	583,168	34	1,180,198
Georgia	0	--	16	105,943	7	266,487	23	372,430
Guam	0	--	0	--	0	--	0	--
Hawaii	1	2,218	0	--	0	--	1	2,218
Idaho	0	--	0	--	0	--	0	--
Illinois	28	939,422	0	--	6	332,868	34	1,272,290
Indiana	0	--	2	124,627	2	510,000	4	634,627
Iowa	0	--	0	--	0	--	0	--
Kansas	4	59,542	6	195,589	3	67,163	13	322,294
Kentucky	1	1,000	28	730,560	0	--	29	731,560
Louisiana	6	70,045	7	180,000	3	53,953	16	303,998
Maine	0	--	0	--	0	--	0	--
Maryland	0	--	0	--	1	23,000	1	23,000
Massachusetts	2	69,159	5	72,300	17	166,434	24	307,893
Michigan	0	--	0	--	2	714,662	2	714,662
Minnesota	2	310,000	0	--	0	--	2	310,000

TABLE A1--Continued

	Sec. 131 (Research)		Sec. 132 (Exemplary)		Sec. 133 (Curriculum)		TOTALS	
	No. of Projects	Amount	No. of Projects	Amount	No. of Projects	Amount	No. of Projects	Amount
Mississippi	1	3,000	0	--	0	--	1	3,000
Missouri	26	73,052	0	--	5	372,949	31	446,001
Montana	7	44,800	2	17,138	7	29,878	16	91,816
Nebraska	0	--	0	--	2	28,000	2	28,000
Nevada	0	--	0	--	0	--	0	--
New Hampshire	0	--	0	--	0	--	0	--
New Jersey	10	194,789	11	190,304	9	84,927	30	470,020
New Mexico	1	107,927	1	23,219	3	67,062	5	198,208
New York	6	236,537	0	--	0	--	6	236,537
North Carolina	15	244,862	0	--	0	--	15	244,862
North Dakota	0	--	0	--	0	--	0	--
Ohio	3	44,550	0	--	2	34,516	5	79,066
Oklahoma	3	28,000	0	--	10	182,000	13	210,000
Oregon	2	15,000	2	44,966	11	88,882	15	148,848
Pennsylvania	22	160,384	5	229,628	19	468,224	46	858,236
Puerto Rico	0	--	0	--	0	--	0	--
Rhode Island	0	--	0	--	0	--	0	--
South Carolina	3	2,500	0	--	16	23,000	19	25,500
South Dakota	0	--	0	--	0	--	0	--
Tennessee	0	--	14	1,417,806	0	--	14	1,417,806
Texas	13	514,421	10	369,376	13	1,995,650	36	2,879,447
Utah	0	--	0	--	0	--	0	--
Vermont	0	--	0	--	0	--	0	--
Virginia	9	394,142	0	--	14	440,957	23	835,099
Washington	11	43,108	0	--	35	81,528	46	124,636
West Virginia	0	--	0	--	14	47,595	14	47,595
Wisconsin	2	50,000	0	--	2	28,000	4	78,000
Wyoming	1	79	0	--	10	158,949	11	159,028
TOTALS	221	4,904,765	126	4,121,322	239	7,360,817	586	16,386,904

Appendix B

FY 1984 State-administered Program Improvement Projects by Legislative Section (Sec. 123, 134, 135, 136)

Appendix B contains 187 section 134 (vocational guidance and counseling), section 135 (vocational education personnel training), section 136 (sex equity), and section 123 (energy education) program improvement project descriptions voluntarily submitted by State departments of vocational education for entry into the RIVE database.

Twenty states reported projects for a total of $7,096,732. The average size of these projects, especially personnel training, was about one-third larger ($37,950 v. $27,964) than those funded under the research, exemplary and innovative, and curriculum development sections. No summary statements have been prepared or conclusions drawn because the submissions were voluntary, and there is no way of knowing whether they are representative of the total population.

TABLE B1

FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY STATE

State or Territory	Number of Projects	Obligated Funds
Alabama	1	432
Alaska	0	--
Arizona	0	--
Arkansas	1	14,976
California	3	142,716
Colorado	0*	--
Connecticut	0	--
Delaware	0	--
District of Columbia	0	--
Florida	0	--
Georgia	0	--
Guam	0	--
Hawaii	0	--
Idaho	0	--
Illinois	0	--
Indiana	3	79,772
Iowa	0	--
Kansas	10	296,429
Kentucky	0	--
Louisiana	0	--
Maine	0	--
Maryland	19	190,822
Massachusetts	8	167,484
Michigan	1	60,280
Minnesota	9	532,335
Mississippi	0	--
Missouri	0	--
Montana	0	--
Nebraska	0	--
Nevada	0	--
New Hampshire	0	--
New Jersey	25	293,835
New Mexico	8	317,872
New York	1	15,700
North Carolina	0	--

*Zero projects were reported for these States.

TABLE B1--Continued

State or Territory	Number of Projects	Obligated Funds
North Dakota	0	--
Ohio	0	--
Oklahoma	0	--
Oregon	10	592,942
Pennsylvania	29	3,229,083
Puerto Rico	0	--
Rhode Island	0	--
South Carolina	0	--
South Dakota	0	--
Tennessee	1	38,420
Texas	11	199,433
Utah	0	--
Vermont	0	--
Virginia	3	361,964
Washington	0	--
West Virginia	26	141,057
Wisconsin	4	78,000
Wyoming	14	299,039
TOTALS	187	$7,096,732

TABLE B2

FY 1984 STATE-ADMINISTERED PROGRAM IMPROVEMENT PROJECTS BY LEGISLATIVE SECTION

Legislative Section under Subpart 3, P.L. 94-482	Number of Projects	Obligated Funds
Section 134, guidance and counseling	15	376,332
Section 135, personnel training	167	6,649,371
Section 136, sex equity	1	1,039
Section 123, energy	4	69,990
TOTAL	187	$7,096,732

TABLE B3

RECIPIENTS OF PROJECT FUNDING

Institution or Agency	Number of Projects	Funding of Projects
College or university	88	5,237,640
Local education agency	48	821,561
State education agency	11	428,924
Unclassified	14	270,527
Community college, junior college, or technical institute	20	202,286
Intermediate education agency	5	75,514
Research/development/curriculum organization	1	60,280
TOTALS	187	$7,096,732

TABLE B4

PRIMARY USERS

Institution or Agency	Number of Projects	Funding of Projects
Teacher/coordinator	124	5,392,885
Teacher educator	12	613,976
Student	18	481,043
Guidance personnel	9	156,879
Administrator (local)	6	113,497
Administrator/supervisor (State)	4	74,264
Elected official/advisory member	1	40,147
Parent/community representative	2	24,608
TOTALS	187	$7,096,732

TABLE B5

INSTRUCTIONAL LEVEL

Instructional Level	Number of Projects	Amount of Funding
College or university (13-16)	144	6,302,087
High school and postsecondary (10-14)	7	215,657
Unclassified	11	199,433
Community college, junior college and technical institute (13-14)	6	148,423
High school (10-12)	11	124,963
Adult	5	80,694
Secondary (7-12)	2	12,975
None of these	1	12,500
TOTALS	187	$7,096,732

TABLE B6

PRODUCTS OR OUTCOMES OF PROJECTS

Product or Outcome	Number of Projects	Amount of Funding
Inservice education	122	4,731,974
Training programs	20	1,344,949
Program implementation	1	341,812
Unclassified	11	199,433
Competency tests	3	108,300
Career and vocational counseling	5	97,914
Placement services	2	80,080
Curriculum guide	2	53,500
Printed instructional materials	8	37,094
Articulation	1	30,000
Information systems	1	20,918
Workshops	4	15,705
Consortium	1	10,000
Employment services	1	8,700
Handbook or guide	1	8,150
Community involvement	1	3,690
Needs assessment	1	2,663
Evaluation	1	1,400
Planning	1	450
TOTALS	187	$7,096,732

TABLE B7

PRIORITIES ADDRESSED BY PROJECTS

Areas of Emphasis	Number of Projects	Amount of Funding
Personnel development	102	4,017,186
Teacher education	27	1,992,222
Handicapped	11	277,738
Unclassified	11	199,433
Disadvantaged	6	149,238
Curriculum	13	147,435
Career development	6	134,731
Administration of vocational education	3	94,100
Dissemination of information or products	1	20,918
Job placement	1	19,800
Bilingual vocational education	1	15,390
Sex equity	1	12,813
Basic skills	1	8,538
Student recruitment	1	3,050
Industry/education linkage	1	450
TOTALS	187	$7,096,732

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RELATED DOCUMENTS

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Arrington, Larry R.; Budke, Wesley E.; and Magisos, Joel H. "Federal Funds for Program Improvement." The Journal of the American Association of Teacher Educators on Agriculture 22, no. 3 (November 1981): 54-64.

Arthur, Patricia, and Budke, Wesley E. Current Projects in Vocational Education--FY 1978. State-administered Projects. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1980. (ED 189 445)

Arthur, Patricia, and Budke, Wesley E. Current Projects in Vocational Education--FY 1979. State-administered Projects. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1980. (ED 190 848)

Budke, Wesley E. Summary of State-administered Program Improvement Projects in FY 1983. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1984.

Budke, Wesley E. Vocational Education Program Improvement: A Summary of State-Administered Projects in FY 1980. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1981. (ED 198 263)

Budke, Wesley E. Vocational Education Program Improvement: An Analysis of State-administered Projects in FY 1978-1979. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1983. (ED 227 311)

Budke, Wesley E., and Gordon, Ruth. Vocational Education Program Improvement: A Summary of State-administered Projects in FY 1981. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1982. (ED 215 147)

Budke, Wesley E., and Magisos, Joel H. Vocational Education Program Improvement: A Summary of State-administered Projects in FY 1978 and 1979. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1980. (ED 194 768)

Committee for Vocational Education Research and Development. Assessing Vocational Education Research and Development. Washington, DC: National Academy of Sciences, 1976. (ED 128 654)

Education Amendments of 1976. Public Law 94-482, 12 October 1976.

Gordon, Ruth; Clapp, Wayne; and Budke, Wesley E. *Research and Development Projects in Vocational Education, FY 1970-77. Annotated Bibliography. Volume II: State-administered Projects*. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1980. (ED 182 499)

Hull, William L. *R&D Outcomes: An Examination of Product Distribution, Use, and Impact in Vocational Education*. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1983.

Resources in Vocational Education: State Program Improvement Projects--FY 1980. Vol. 14, no. 2. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1981. (ED 204 613)

State Program Improvement Projects--FY 1981. Columbus: The National Center for Research in Vocational Education, The Ohio State University, 1982. (ED 215 147)

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